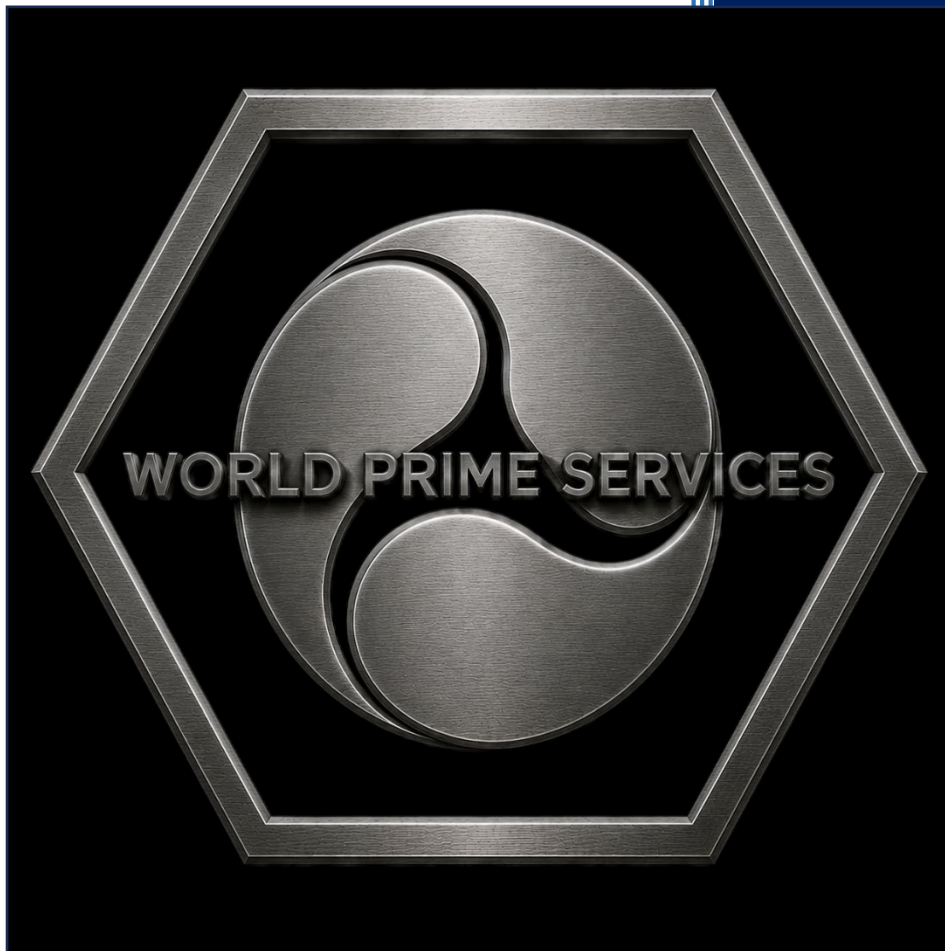


2026

WORLD PRIME SERVICES



INDUSTRIAL CONVEYOR BELTING SOLUTIONS



INDUSTRIAL CONVEYOR BELTING SOLUTIONS

PVC • PU • PVK • PE • TPEE • SILICONE • MODULAR & SPECIAL BELTING



FOOD PROCESSING – HYGIENIC PVC BELT



PACKAGING & LOGISTICS – PVC BELT



MINING & AGGREGATES – CLEATED PVC BELT



BOTTLING & BEVERAGE – MODULAR POM BELT



TEXTILE INDUSTRY – PU BELT



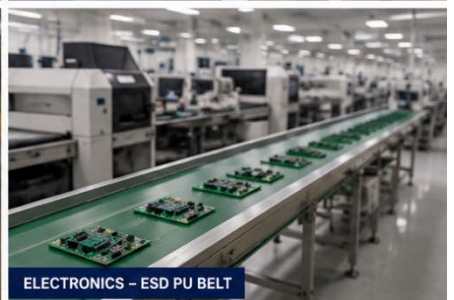
AIRPORT & BAGGAGE HANDLING – PVC BELT



AUTOMOTIVE INDUSTRY – PU BELT



WOODWORKING – PVK BELT



ELECTRONICS – ESD PU BELT



1. PVC CONVEYOR BELTS

World Prime Services PVC conveyor belts are versatile light-duty industrial belts for logistics, packaging, food processing, electronics, printing, textile, ceramics, marble and stone processing, woodworking and general conveying. The reference product family offers more than 30 surface patterns and a broad range of constructions for different friction, load and process requirements.



VERIFIED PRODUCT FAMILY RANGE

Parameter	Verified Range / Description
Thickness	1–13 mm; customized
Colors	Green, White, Black, Blue; customized
Weight	1.2–10.9 kg/m ²
Effective pull at 1% elongation	12–80 N/mm (family range)
Temperature range	-15 to +80 °C
Characteristics	Lateral stability, oil resistant, FDA-oriented grades, antistatic, cold resistant, flame retardant, low noise
Surface patterns	More than 30 patterns available



REPRESENTATIVE VERIFIED PVC MODELS

Type	Ply	Color	Pattern	Total mm	Cover mm	Shore A	Weight kg/m ²	1% Pull N/mm	Min Pulley mm	Temp °C
20P21-34/0	2	Black	Matt	2.0	0.5	80	2.2	10	30	- 15/+80
10P12-14A	1	Green	Smooth/Smooth	1.0	0.5	90	1.2	4	10	- 15/+80
10P12-84A	1	Blue	Smooth	1.0	0.5	90	1.2	4	10	- 15/+80
18P22-27	2	White	Fabric	1.8	—	—	1.7	8	40	- 15/+80
18P22-27A	2	White	Fabric/Fabric	1.8	—	—	2.2	8	40	- 15/+80
20P25-14A	2	Green	Smooth/Fabric	2.0	0.5	80	2.4	8	30	- 15/+80
20P25-14/1A	2	Green	Diamond	2.0	1.0	70	2.3	8	30	- 15/+80
20P25-14/21A	2	Green	Smooth/Smooth	2.0	0.5	85	2.4	8	40	- 15/+80

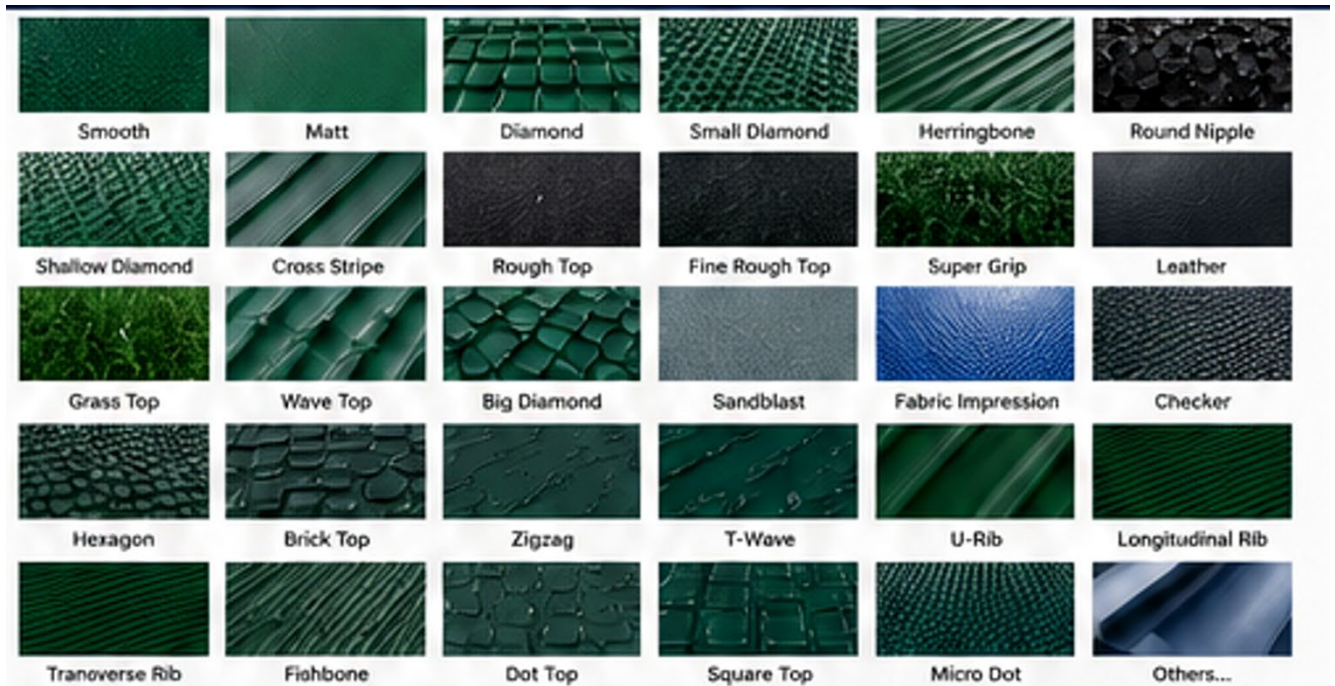
STANDARD COLORS – REPRESENTATIVE VISUALS



The verified family range lists Green, White, Black and Blue as standard/reference colors, with customized colors available.



PVC PATTERNS & FABRICS (OVER 30 SURFACE PATTERNS)



SURFACE PATTERN INDEX

Pattern / Surface

- | | |
|-------------------|----------------------|
| 1 Smooth | 16 Sandblast |
| 2 Matt | 17 Fabric Impression |
| 3 Diamond | 18 Checker |
| 4 Small Diamond | 19 Hexagon |
| 5 Herringbone | 20 Brick Top |
| 6 Round Nipple | 21 Zigzag |
| 7 Shallow Diamond | 22 T-Wave |
| 8 Cross Stripe | 23 U-Rib |
| 9 Rough Top | 24 Longitudinal Rib |
| 10 Fine Rough Top | 25 Transverse Rib |
| 11 Super Grip | 26 Fishbone |
| 12 Leather | 27 Dot Top |
| 13 Grass Top | 28 Square Top |
| 14 Wave Top | 29 Micro Dot |
| 15 Big Diamond | 30 Others |



Note: More than 30 surface patterns may be available. Special patterns can be customized subject to technical and manufacturing feasibility.

Surface texture is selected according to friction, release, drainage, product marking, incline angle and cleaning requirements. The portfolio is organized to cover smooth and matte surfaces through high-grip and deeply embossed patterns.

Pattern / Impression	Functional Description	Typical Application
Matt	Non-adhesive general-purpose surface	General conveying
Diamond	Approx. 0.6 mm pattern; broad-width option	Logistics and food processing
Rough Fabric	Approx. 0.3 mm texture	General conveying
Rough Top – Light	Approx. 1.6 mm high-friction profile	Incline logistics and airport
Rough Top – Heavy	Approx. 2.4 mm high-friction profile	Incline logistics and airport
Round Nipple	Approx. 0.6 mm embossed profile	Marble processing / incline
Shallow Diamond	Controlled grip	Logistics / processing
Leather	Decorative / controlled friction	Special handling
Sandblast	Fine textured grip	General processing
Herringbone	Directional grip	Incline conveying
Sawtooth	Directional high grip	Incline conveying
Golf	Moderate grip	Packaging / general industry
Fine Golf	Fine controlled grip	General handling
Grass Top	High-friction surface	Incline conveying
Super Grip	Very high friction	Steep incline / parcels
Fine Rough Top	Fine high-friction texture	Product handling
Fabric Impression	Textile-like surface	General handling
Cross Pattern	Multidirectional grip	Incline / positioning
Wave Top	Directional product control	Incline / decline
Big Diamond	Heavy embossed grip	Industrial handling
Checker Top	Grip and positioning	General industry
Square Top	Raised square profile	Incline
Dot Top	Point-contact grip	Processing
Oval Top	Raised oval profile	Special handling
Long Rib	Longitudinal ribs	Tracking / directional movement
Transverse Rib	Rollback resistance	Incline conveying
Zigzag	Directional friction	Special conveying
Blade Top	High-profile grip	Incline
Fishbone	Directional drainage / grip	Processing
Hexagon	Multidirectional grip	General industry
Brick Top	Raised block profile	Incline
Cone Top	Point-contact high grip	Special conveying
T-Wave	Directional profile	Incline
U-Rib	Ribbed traction	General conveying
Micro Dot	Fine contact texture	Precision handling



PRINCIPAL SURFACE PATTERNS



Pattern	Reference Information
Matt	Non-adhesive surface; general application
Diamond	Approx. 0.6 mm pattern; up to 3000 mm reference width; logistics and food processing
Rough Fabric	Approx. 0.3 mm texture; general application
Rough Top	Approx. 1.6 or 2.4 mm high-friction pattern; incline conveying; logistics and airport
Round Nipple	Approx. 0.6 mm pattern; incline conveying; marble processing
Other Patterns	More than 30 surface patterns are indicated for the PVC family

FABRIC OPTIONS

Fabric Family	Typical Function
High-strength polyester	Longitudinal tensile strength
Laterally stable polyester	Improved transverse rigidity
Non-laterally-stable polyester	Flexibility and troughing
Polyester / cotton	Balanced handling properties
Cotton	Traditional fabric grip
Felt	Soft-contact processing
Low-noise fabric	Noise reduction
Conductive-yarn fabric	Static-control support where specified

PVC CONVEYOR BELTS – INDUSTRY APPLICATIONS



Industry	Typical Requirements
Packaging & Logistics	Antistatic options, low noise, grip, high-speed stability
Food Processing	Food-contact grade where specified, oil resistance, cleanability
Electronics	Antistatic performance and dimensional stability
Textile & Printing	Low elongation, dimensional stability, low noise, clean-cut edges
Woodworking	Grip, abrasion and cut resistance
Stone & Ceramics	Cut resistance, abrasion resistance, flatness and high strength
Airport Baggage	High-friction patterns, low noise, antistatic and flame-resistant options
General Industry	Application-specific color, pattern, thickness and fabrication



ADDITIONAL VERIFIED APPLICATION MODELS

Type	Application	Ply	Color	Pattern	Thickness	1% Pull	Min Pulley	Temp.
20P25-44/1BZA	Logistics & Airport	2	Grey	Diamond	2.0 mm	6 N/mm	40 mm	-15/+80 °C
70P39-28/15	Material Conveying / Stone	3	White	Smooth	7.0 mm	50 N/mm	350 mm	-15/+80 °C
70P39-76/4	Stone & Ceramics	3	Petrol	Round Nipple	7.0 mm	50 N/mm	350 mm	-15/+80 °C
70P39-76/25	Stone & Ceramics	3	Petrol	Low Grip	7.0 mm	50 N/mm	350 mm	-15/+80 °C
90P32-36/13	Wood	3	Black	Square	9.0 mm	13 N/mm	120 mm	-15/+80 °C

PERFORMANCE & SELECTION CONSIDERATIONS

Property	Engineering Consideration
Abrasion / Cut Resistance	Select cover thickness and surface according to conveyed product
Oil Resistance	Specify oil/fat type, concentration and exposure
Antistatic	Specify required test method and resistance range
Flame Retardance	Specify applicable standard / test method
Low Noise	Select suitable underside fabric and conveyor support
Cold Resistance	Confirm minimum operating temperature for exact grade
Pulley Diameter	Confirm against belt thickness, fabric, splice and load
Tracking	Depends on conveyor alignment, tension, loading and optional guides

ORDERING INFORMATION

Required Data	Customer Specification
Model / Duty	Known model or application description
Width	mm
Length	Open or endless, mm
Thickness / Ply	Required construction
Color	Green / White / Black / Blue / Custom
Top Pattern	Smooth / Matt / Diamond / Rough Top / Round Nipple / Other
Bottom Surface	Smooth / Fabric / Patterned
Load and Speed	kg and m/s
Pulley Diameters	Drive / tail / snub
Temperature	Minimum / maximum °C
Special Properties	Oil resistant / antistatic / flame retardant / low noise / cold resistant / food-contact
Fabrication	Splice, V-guide, cleat, sidewall, perforation or custom



PVC CONVEYOR BELTS

PVC conveyor belts are widely used in logistics, packaging, food, electronics, textile, woodworking and many other industries.

Features: light weight, high flexibility, excellent abrasion resistance, oil and chemical resistance, anti-static options and various surface patterns.



2. PU CONVEYOR BELTS

World Prime Services polyurethane conveyor belts are designed for lightweight industrial and hygienic conveying applications. PU-coated textile constructions combine flexibility, abrasion resistance and good resistance to oils and fats on suitable grades. Food-contact configurations can be supplied subject to the required market compliance and application specification.



PRODUCT RANGE

Parameter	Range / Description
Material	Thermoplastic polyurethane (PU) coated textile conveyor belt
Thickness	0.7–5.0 mm; customized constructions available
Standard colors	Green, White, Blue; other colors subject to manufacturing feasibility
Weight	Approx. 0.9–6.0 kg/m ² depending on construction
Effective pull at 1% elongation	Approx. 4.0–10.0 N/mm depending on construction
Temperature range	Typically -20 to +80 °C
Primary characteristics	Lateral stability, oil-resistant grades, hygienic / food-processing oriented grades
Typical surfaces	Smooth, Smooth/Fabric, Matt and customized textures

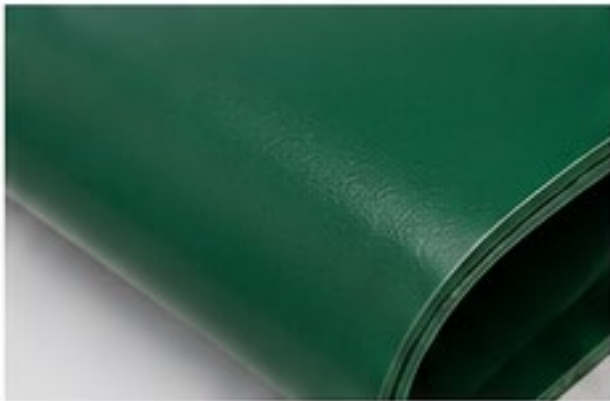


STANDARD COLORS



Color	Typical Use
Green	General industrial conveying and process lines
White	Food-processing and clean-production environments
Blue	Food-processing visibility and specialty clean applications

SURFACE OPTIONS



Surface	Description
Smooth	Easy-clean surface for stable product transfer and hygienic applications
Smooth / Fabric	PU top cover with textile underside for slide-bed operation
Matt	Fine textured surface providing controlled friction and reduced glare



PU CONVEYOR BELT – TECHNICAL MODELS

The following model data is organized from the referenced PU conveyor belt technical range. Final availability and commercial designation should be confirmed when ordering.

Type	Ply	Color	Top / Bottom	Total (mm)	Cover (mm)	Shore A	Weight kg/m ²	1% Pull N/mm	Min. Pulley mm	Temp. °C
8U12-14BA	1	Green	Smooth / Fabric	0.8	0.3	86	1.0	4	6	-20 / +80
8U12-24BA	1	White	Smooth / Fabric	0.8	0.3	86	1.0	4	6	-20 / +80
10U12-24A	1	White	Smooth	1.0	0.5	95	1.2	4	8	-20 / +80
15U22-14A	2	Green	Smooth	1.5	0.5	95	1.8	8	20	-20 / +80
15U22-24A	2	White	Smooth	1.5	0.5	95	1.8	8	20	-20 / +80
15U22-84/0A	2	Blue	Matt	1.5	0.5	90	1.8	12	20	-20 / +80
16U22-24A	2	White	Smooth	1.6	0.5	95	1.9	8	20	-20 / +80
20U22-14A	2	Green	Smooth	2.0	0.5	90	2.4	8	40	-20 / +80

MODEL SELECTION NOTES

8U12 series: ultra-light 1-ply construction for small pulley diameters and lightweight conveying.

10U12-24A: white 1-ply smooth PU belt for compact hygienic or process conveyors.

15U22 series: 2-ply medium-light construction in green, white and blue, including smooth and matt surfaces.

16U22-24A: white smooth 2-ply construction with 1.6 mm total thickness.

20U22-14A: heavier green smooth 2-ply construction with 2.0 mm total thickness.

INDUSTRY APPLICATIONS



Industry	Typical PU Belt Duty
Food Processing	Meat, poultry, seafood, bakery, confectionery, fruit and vegetable handling
Packaging & Logistics	Clean packaging lines, inspection, sorting and product transfer
Electronics	Precision component handling and clean assembly lines
Textile	Low-marking and controlled-friction process conveying
Woodworking	Selected smooth PU applications requiring clean product contact

PRODUCT PERFORMANCE DETAILS



Property	Selection Consideration
Flexibility	Supports compact conveyor layouts and smaller pulley diameters on light constructions
Oil / Fat Resistance	Suitable grades for food and industrial environments involving oils and fats
Abrasion Resistance	PU covers offer good wear behavior in repetitive conveying
Cleanability	Smooth surfaces support easier sanitation and product release
Low-temperature performance	Typical operating range extends to approximately -20 °C on listed models

FOOD-CONTACT & HYGIENIC APPLICATIONS

For direct food-contact service, specify the target market and applicable food-contact regulation at the quotation stage. Compliance documentation should be confirmed for the exact belt compound, color and production batch supplied.



ORDERING INFORMATION

Required Data	Customer Specification
Model / Construction	Required PU model or duty description
Width	mm
Length	Open length or endless length, mm
Color	Green / White / Blue / custom
Surface	Smooth / Smooth-Fabric / Matt / custom
Operating temperature	Minimum and maximum °C
Load and speed	Conveyed load and belt speed
Pulley diameters	Drive / tail / snub pulley diameters
Environment	Oil, fat, cleaning chemical, moisture, cold room
Food-contact requirement	Applicable target-market regulation, if required
Fabrication	Endless splice, guide, cleat, sidewall, perforation or custom

3. PE CONVEYOR BELTS

World Prime Services PE (polyethylene) conveyor belts are lightweight thermoplastic conveying solutions intended for clean-process, packaging and selected food-handling duties where low adhesion, moisture resistance and easy-clean surfaces are desirable. Final material formulation and compliance shall be selected for the specific process.



PRODUCT CHARACTERISTICS

Characteristic	Description
Material family	Polyethylene (PE) thermoplastic conveyor belt construction
Primary benefits	Low adhesion, moisture resistance, lightweight handling and easy-clean surface
Typical colors	Green, White, Blue; customized colors subject to manufacturing feasibility
Typical surfaces	Smooth, matt / embossed and fine-texture options
Fabrication	Custom width, endless joining, guides and cleats where construction permits
Food applications	Specify exact target-market food-contact compliance before ordering

IMPORTANT TECHNICAL DATA STATUS

The referenced manufacturer's public PE Conveyor Belt product page identifies PE as a separate conveyor-belt family, but the public technical parameter table currently displays no PE model codes or populated numerical specification rows. Therefore, World Prime Services does not present unverified model numbers, thicknesses, hardness values, effective-pull values, pulley diameters or temperature limits as manufacturer-derived data. These values must be confirmed against the exact PE construction offered.

STANDARD COLORS – REPRESENTATIVE VISUALS



Color	Typical Selection Context
Green	General clean industrial conveying
White	Food and hygienic process environments
Blue	Food-processing visibility and clean production

SURFACE OPTIONS – REPRESENTATIVE VISUALS



Surface	Typical Function
Smooth	Low adhesion and easier cleaning
Matt / Embossed	Controlled friction
Fine Texture	Product stabilization and controlled grip

PE CONVEYOR BELTS – APPLICATION & SELECTION

TYPICAL APPLICATIONS



Application	Selection Considerations
Food Processing	Cleanability, food-contact compliance, oils/fats and cleaning chemistry
Packaging & Logistics	Product weight, speed, friction and accumulation
Recycling	Impact, abrasion, contamination and conveyed material
Agriculture	Moisture, product marking and outdoor exposure
General Industry	Load, pulley diameter, speed and operating environment

PRODUCT PERFORMANCE CONSIDERATIONS



Property	Engineering Consideration
Chemical Resistance	Confirm exact chemical, concentration, exposure duration and temperature
Low Friction / Release	Select surface finish according to accumulation and product release
Impact Resistance	Validate belt construction and support bed against impact loading
Cleanability	Match surface and splice design to sanitation procedure
Dimensional Stability	Confirm textile reinforcement and tension requirements
Service Life	Depends on load, speed, pulley size, environment, tracking and maintenance



PE BELT SELECTION DATA – TO BE CONFIRMED

Parameter	Required / Confirmed Value
Total thickness	To be specified
Number of plies	To be specified
Top cover thickness	To be specified
Color	Green / White / Blue / Custom
Top surface	Smooth / Matt / Fine Texture / Custom
Bottom surface	Fabric / coated / application-specific
Effective pull at 1% elongation	Confirm by exact construction
Minimum pulley diameter	Confirm by exact construction and splice
Operating temperature	Confirm by exact PE compound
Maximum available width	Confirm at quotation
Food-contact compliance	Specify applicable regulation / market

ORDERING INFORMATION

Required Data	Customer Specification
Application	Product/material conveyed
Belt width	mm
Belt length	Open or endless, mm
Thickness	Required or duty-based selection
Color	Required color
Surface	Required top/bottom finish
Load and speed	kg and m/s
Pulley diameters	Drive / tail / snub
Temperature	Minimum / maximum °C
Environment	Chemical, oil/fat, humidity, washdown
Special requirement	Food contact, antistatic or other
Fabrication	Splice, guide, cleat, perforation or custom

4. TPEE CONVEYOR BELTS

World Prime Services TPEE conveyor belts are thermoplastic polyester elastomer belt constructions intended for precision and industrial conveying. The verified reference range is based on black, 2-ply belts with four distinct surface patterns: Diamond, Shallow Diamond, Leather and Sandblast.



VERIFIED TECHNICAL RANGE

Type	Ply	Color	Pattern	Total mm	Cover mm	Shore A	Weight kg/m ²	1% Pull N/mm	Min Pulley mm	Temp °C
S20/1	2	Black	Diamond	2.0	0.5	70	2.3	8	40	-15 / +60
S20/17	2	Black	Shallow Diamond	2.0	0.5	70	2.3	8	40	-15 / +60
S20/20	2	Black	Leather	2.0	0.5	75	2.4	8	40	-15 / +60
S20/31	2	Black	Sandblast	2.0	0.5	75	2.4	8	40	-15 / +60

TECHNICAL CHARACTERISTICS

Parameter	Verified Range / Description
Number of plies	2
Color	Black
Total thickness	2.0 mm
Top cover thickness	0.5 mm
Cover hardness	70 or 75 Shore A, depending on pattern
Weight	2.3 or 2.4 kg/m ²
Effective pull at 1% elongation	8 N/mm
Minimum pulley diameter	40 mm
Temperature range	-15 to +60 °C
Support suitability	Slide and roller support indicated in the reference technical table
Lateral stability	Indicated in the reference technical table
Antistatic	Indicated in the reference technical table
Oil and fat resistance	Indicated for S20/20 in the reference technical table

SURFACE PATTERNS



Model	Surface Pattern	Typical Surface Function
S20/1	Diamond	Embossed multidirectional grip
S20/17	Shallow Diamond	Lower-profile controlled grip
S20/20	Leather	Textured surface for controlled friction
S20/31	Sandblast	Fine textured industrial surface

COLOR & CONSTRUCTION



The verified TPEE models listed in the public technical parameter table are black. Other colors shown in representative visuals should not be treated as verified standard colors for models S20/1, S20/17, S20/20 or S20/31 unless separately confirmed.

TPEE CONVEYOR BELTS – APPLICATION & SELECTION

REPRESENTATIVE APPLICATION ENVIRONMENTS



Application	Engineering Consideration
Packaging & Logistics	Friction, speed, accumulation and dimensional stability
Textile & Printing	Low elongation, stable tracking and surface finish
Electronics	Antistatic requirement, precision handling and clean edges
General Industry	Load, abrasion, pulley size and operating environment
Processing Lines	Pattern selection according to grip and product release

PRODUCT PERFORMANCE CONSIDERATIONS



Property	Selection Consideration
Surface Grip	Select Diamond, Shallow Diamond, Leather or Sandblast according to product and friction requirement
Abrasion / Wear	Validate against conveyed product and duty cycle
Chemical Exposure	Confirm exact chemical, concentration, time and temperature
Dimensional Stability	Verify tension, conveyor geometry and operating load
Temperature	Verified listed range for S20 series is -15 to +60 °C
Pulley Diameter	Verified listed minimum is 40 mm for the four S20 models

ORDERING INFORMATION

Required Data	Customer Specification
Model	S20/1 / S20/17 / S20/20 / S20/31 or duty-based selection
Width	mm
Length	Open or endless, mm
Pattern	Diamond / Shallow Diamond / Leather / Sandblast
Load and speed	kg and m/s
Pulley diameters	Drive / tail / snub
Operating temperature	Minimum / maximum °C
Environment	Oil, fat, chemical, moisture or other
Support	Slide bed / roller bed



5. SILICONE CONVEYOR BELTS

World Prime Services silicone conveyor belts are specialty process belts intended for applications where release behavior, thermal resistance and product-contact characteristics are important. Typical uses include bakery, confectionery, food processing, packaging, textile, lamination and other specialty industrial processes.



REFERENCE-SOURCE DATA STATUS

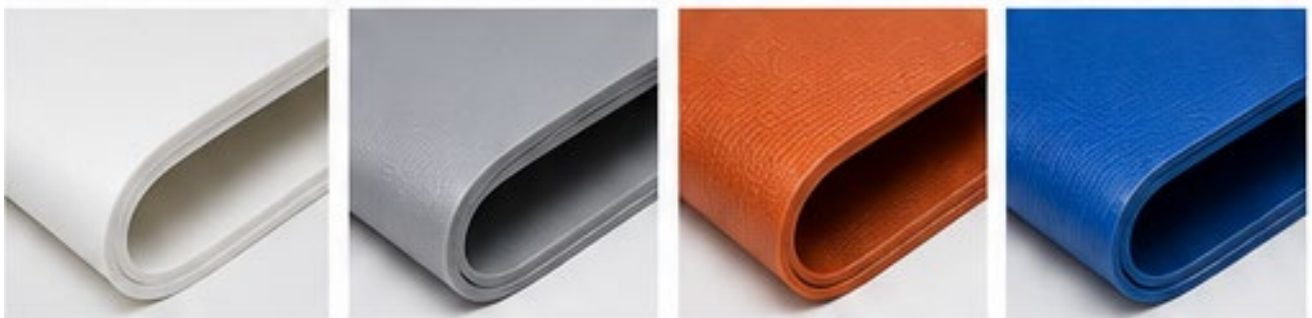
The referenced manufacturer's public product menu lists Silicon Conveyor Belt as a separate conveyor-belt family. However, its public technical parameter table currently contains no populated model codes or numerical rows for this family. Therefore, this catalogue does not present unverified model numbers, thicknesses, hardness, effective pull, minimum pulley diameter or temperature limits as manufacturer-derived specifications. Final numerical data must be confirmed for the exact silicone belt construction supplied.



PRODUCT CHARACTERISTICS

Characteristic	Engineering Description
Cover / Surface Material	Silicone-based specialty surface or silicone-coated textile construction
Primary Function	Release / non-stick conveying and specialty temperature-duty processing
Typical Surface Options	Smooth, textured / embossed, fabric-backed or application-specific
Typical Colors	White, gray and other colors may be available depending on compound and construction
Fabric Reinforcement	Application-specific textile reinforcement
Food Processing	Food-contact compliance must be specified and documented for the exact supplied compound
Fabrication	Endless joining, guides, cleats or perforation subject to construction compatibility

REPRESENTATIVE COLORS – ORIGINAL VISUALS



Colors shown are representative visual examples only and are not presented as verified standard colors of the referenced manufacturer's silicone conveyor-belt range.

REPRESENTATIVE SURFACE OPTIONS



Surface	Typical Function
Smooth	Release, easy cleaning and stable product transfer
Embossed / Diamond-type	Controlled grip and reduced contact area
Matt / Fabric-type	Controlled friction or textile-contact processing

SILICONE CONVEYOR BELTS – APPLICATION & SELECTION

TYPICAL APPLICATIONS



Application	Selection Considerations
Bakery & Confectionery	Release behavior, product marking, temperature and sanitation
Food Processing	Food-contact compliance, cleaning chemistry and oil/fat exposure
Pharmaceutical / Clean Process	Cleanability, product compatibility and documentation
Electronics	Thermal process, surface release and dimensional stability
Packaging	Product release, friction and conveyor speed
Textile / Lamination	Heat, release behavior and surface texture

PERFORMANCE CONSIDERATIONS

Property	Engineering Consideration
Temperature Resistance	Must be confirmed for the exact silicone compound, textile reinforcement and splice
Release / Non-Stick	Select surface finish according to conveyed material and process temperature
Chemical Resistance	Confirm chemical type, concentration, exposure duration and temperature
Abrasion / Tear	Validate against conveyed product, scraper contact and duty cycle
Pulley Diameter	Confirm against total thickness, fabric, splice and operating temperature
Dimensional Stability	Confirm tensile reinforcement and tensioning requirements
Hygiene	Specify cleaning regime and required food/pharma compliance

TECHNICAL DATA – TO BE CONFIRMED BY EXACT CONSTRUCTION

Parameter	Required / Confirmed Value
Product code	To be assigned / confirmed
Number of plies	To be confirmed
Color	To be confirmed
Top / bottom pattern	To be confirmed
Total thickness	To be confirmed
Cover thickness	To be confirmed
Cover hardness	To be confirmed
Weight	To be confirmed
Effective pull at 1% elongation	To be confirmed
Minimum pulley diameter	To be confirmed
Operating temperature	To be confirmed
Antistatic property	If required, specify test method
Food-contact compliance	Specify target market / regulation
Oil / fat resistance	Confirm by exact compound



ORDERING INFORMATION

Required Data	Customer Specification
Application	Product and process description
Belt width	mm
Belt length	Open or endless, mm
Surface	Smooth / embossed / fabric / custom
Color	Required color
Temperature	Continuous and peak °C
Load and speed	kg and m/s
Pulley diameters	Drive / tail / snub
Chemical exposure	Chemical, concentration and contact time
Cleaning	Method, detergent and wash temperature
Compliance	Food / pharma / other requirement
Fabrication	Splice, guide, cleat, perforation or custom

6. PVK / LOGISTICS BELTING

World Prime Services PVK and logistics belting solutions are intended for high-throughput material handling, parcel sorting, distribution centers and airport baggage systems. The referenced logistics range emphasizes lightweight construction, good elasticity, low elongation and long service life. Planar and skid-resistant logistics belts may be specified with antistatic, cut/corrosion-resistant, flame-resistant and low-noise characteristics according to the exact belt grade.



LOGISTICS & AIRPORT APPLICATION CHARACTERISTICS

Characteristic	Description
Primary industries	Logistics, airports, parcel hubs, warehousing and distribution
Operating duty	High-speed conveying, sorting, baggage handling and carton transport
Key characteristics	Light weight, good elasticity, small elongation and long service life
Functional options	Antistatic, cut/corrosion resistance, flame resistance and low noise on suitable grades
PVK application	PVK conveyor belts are specifically identified as widely used in logistics

VERIFIED PVK TECHNICAL MODELS

Type	Ply	Color	Pattern	Total mm	Cover Top/Bottom mm	Weight kg/m ²	1% Pull N/mm	Min Pulley mm	Temp °C
30PVK100	1	Black	Fabric	3.0	0.2 / 0.1	3.4	15	60	-15 / +95
38PVK125	1	Black	Fabric	3.8	0.2 / 0.1	4.0	20	80	-15 / +95
40PVK130	1	Black	Fabric	4.0	0.2 / 0.1	4.2	22	90	-15 / +95
43PVK150	1	Black	Fabric	4.3	0.2 / 0.1	4.5	25	100	-15 / +95

PVK MODEL SELECTION SUMMARY

Model	Thickness	Effective Pull at 1%	Minimum Pulley	Typical Selection Position
30PVK100	3.0 mm	15 N/mm	60 mm	Lighter PVK logistics duty
38PVK125	3.8 mm	20 N/mm	80 mm	Medium PVK logistics duty
40PVK130	4.0 mm	22 N/mm	90 mm	Medium-heavy PVK logistics duty
43PVK150	4.3 mm	25 N/mm	100 mm	Heavier PVK logistics duty

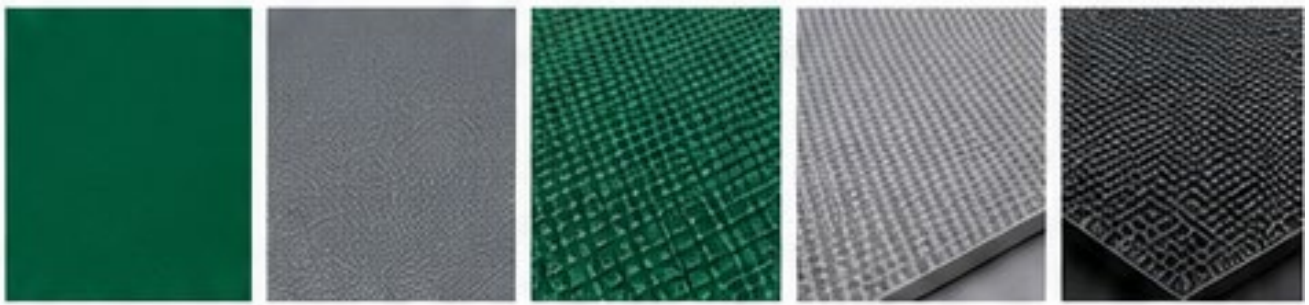
REPRESENTATIVE LOGISTICS BELT COLORS



The verified PVK models listed above are black fabric constructions. Green, white, blue and grey images are representative of the wider logistics conveyor-belt portfolio and should not be interpreted as verified colors for PVK models 30PVK100, 38PVK125, 40PVK130 or 43PVK150.



SURFACE & GRIP OPTIONS – LOGISTICS PORTFOLIO



Surface	Typical Logistics Function
Fabric – PVK	Durable woven surface for parcel and baggage handling
Matt	General low-reflection conveying
Diamond	Controlled multidirectional grip
Wavy Super Grip	High friction for incline conveying
Smooth	Stable horizontal product transfer

PVK / LOGISTICS BELTING – APPLICATION & SELECTION

APPLICATIONS



Application	Typical Belt Requirement
Airport Baggage Handling	Stable high-speed movement, low noise, antistatic and flame-resistant options
Express & Parcel Sorting	Dimensional stability, grip, low elongation and high cycling
Warehousing & Distribution	Long service life and reliable carton/tote transport
Carton Conveying	Controlled friction and accumulation behavior
Incline Conveying	High-grip patterns such as Diamond or Wavy Super Grip
General Logistics	Application-specific surface, thickness, antistatic and noise requirements



ADDITIONAL VERIFIED LOGISTICS-MATCHED BELTS

Type	Thickness	Ply	Color	Pattern	1% Pull	Min Pulley	Temperature
20P21-34/0	2.0 mm	2	Black	Matt	10 N/mm	30 mm	-15 / +80 °C
20P25-14/1A	2.0 mm	2	Green	Diamond	8 N/mm	30 mm	-15 / +80 °C
20P25-44/1BZA	2.0 mm	2	Grey	Diamond	6 N/mm	40 mm	-15 / +80 °C
50P22-16/9A	5.0 mm	2	Green	Wavy Super Grip	10 N/mm	60 mm	-20 / +60 °C
53P22-36/9D	5.3 mm	2	Black	Wavy Super Grip	10 N/mm	50 mm	-20 / +60 °C
40P33-27G	4.0 mm	3	White	Fabric	10 N/mm	140 mm	-15 / +80 °C

PERFORMANCE & SELECTION CONSIDERATIONS

Property	Engineering Consideration
High-Speed Stability	Select tensile class, pulley diameter and tension according to conveyor speed and load
Low Elongation	Important for sorters and long conveying centers
Antistatic	Specify required electrical resistance/test standard
Flame Resistance	Specify applicable airport/logistics fire-safety standard
Low Noise	Select underside and conveyor support to reduce running noise
Incline Grip	Use appropriate Diamond or Super Grip surface where rollback must be controlled
Tracking	Maintain pulley alignment, frame geometry, tension and centered loading
Splice	Select endless joining method according to belt type and high-cycle duty



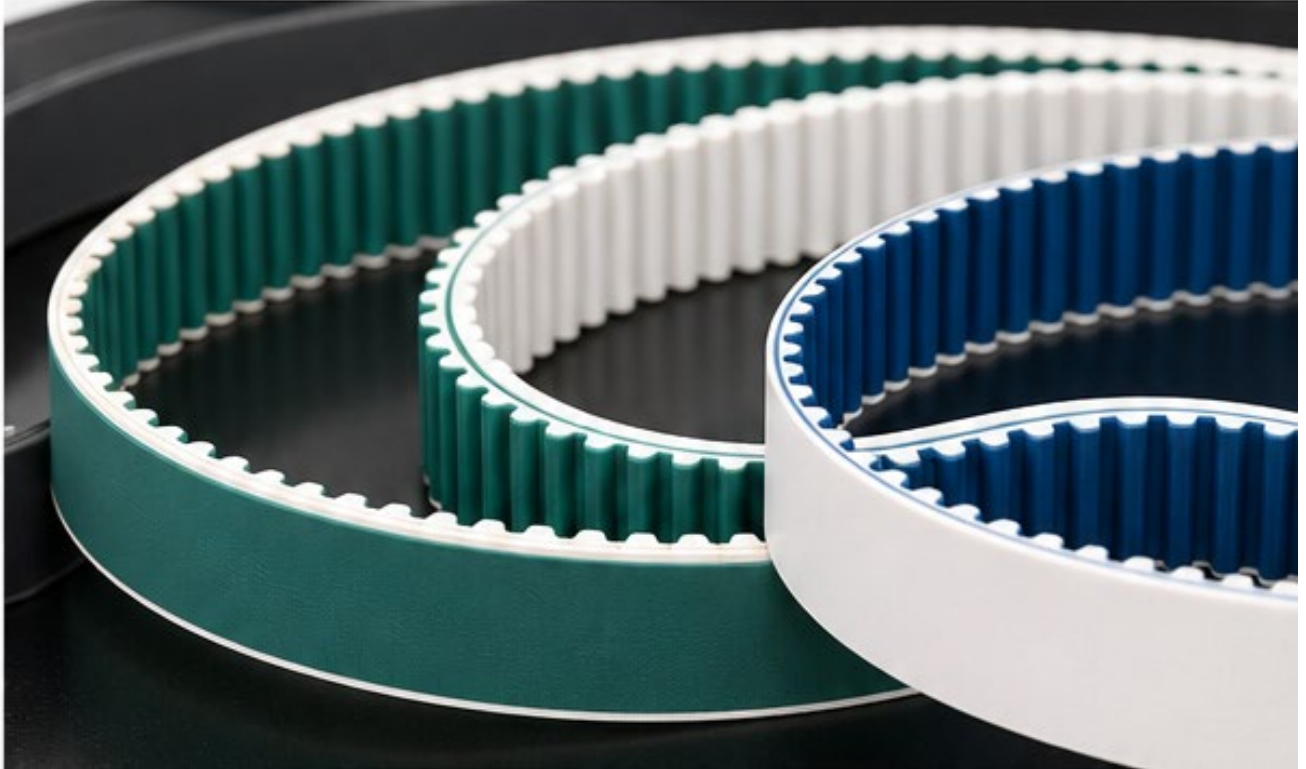
ORDERING INFORMATION

Required Data	Customer Specification
Application	Airport / parcel / warehouse / sorter / incline
Belt type	PVK or logistics belt duty
Width	mm
Length	Open or endless, mm
Model	30PVK100 / 38PVK125 / 40PVK130 / 43PVK150 or other
Surface	Fabric / Matt / Diamond / Super Grip / Smooth
Load and speed	kg and m/s
Pulley diameters	Drive / tail / snub
Temperature	Minimum / maximum °C
Special properties	Antistatic / flame resistant / low noise / cut resistant
Fabrication	Splice, guide, cleat, sidewall or custom



7. PU TIMING BELTS

World Prime Services PU timing belts are manufactured from thermoplastic polyurethane. The referenced standard construction uses steel cord tensile members, combining superior wear and abrasion resistance with good running characteristics under high tractive loads.



PRODUCT FEATURES

Feature	Description
Material	Thermoplastic polyurethane (PU)
Tensile member	Steel cord in referenced standard construction
Benefits	Wear resistance, abrasion resistance, synchronous transmission, high tractive-load capability
Configurations	Open timing belt; endless/fabricated options subject to specification
Open-belt tolerances	Width ± 0.5 mm; Height ± 0.2 mm

HTD PROFILES

Type	P (mm)	H (mm)	Ht (mm)
HTD5M	5.0	3.7	2.2
HTD8M	8.0	5.6	3.6
HTD14M	14.0	10.0	6.43

IMPERIAL PROFILES

Type	P (mm)	H (mm)	Ht (mm)	W (mm)
XL	5.08	2.3	1.27	1.37
L	9.525	3.6	1.9	3.2
H	12.7	4.3	2.29	4.4
XH	22.225	11.2	6.35	7.94

AT PROFILES

Type	P (mm)	H (mm)	Ht (mm)	W (mm)
AT5	5.0	2.7	1.2	2.5
AT10	10.0	4.5	2.5	5.0
AT20	20.0	8.0	5.0	10.0

T PROFILES

Type	P (mm)	H (mm)	Ht (mm)	W (mm)
T5	5.0	2.2	1.2	1.8
T10	10.0	4.5	2.5	3.5
T20	20.0	3.6	5.0	6.5

STD PROFILES

Type	P (mm)	H (mm)	Ht (mm)
STD5M	5.0	3.4	1.91
STD8M	8.0	5.1	3.05

RPP-PAZ PROFILES

Type	P (mm)	H (mm)	Ht (mm)
RPP5M-PAZ	5.0	3.8	2.0
RPP8M-PAZ	8.0	5.4	3.2
RPP14M-PAZ	14.0	10.0	6.0

BACKING / PROFILE OPTIONS

Type	H (mm)
P2	2.0
P4	4.0



TYPICAL APPLICATIONS



Automation & Robotics



Packaging Machines



Textile Machinery



Application	Typical Function
Automation & Robotics	Accurate positioning and repeatable linear motion
Packaging Machinery	Indexing and synchronized feeding
Textile Machinery	Synchronous drive and positioning
Woodworking Machinery	Machine-axis and process transmission
Printing Machinery	Registration and synchronized movement
Food Processing Equipment	Machine transmission where construction suits the environment

PERFORMANCE & SELECTION CONSIDERATIONS

Property	Engineering Consideration
Profile	Match tooth profile and pitch to pulley geometry
Load	Select belt width and tensile member for transmitted force
Alignment	Maintain accurate pulley alignment
Pretension	Set for drive geometry and load
Speed	Confirm profile, pulley tooth count and dynamic load
Environment	Confirm temperature, oil, chemical and humidity exposure
Fabrication	Specify backing, machining, perforation or special processing



ORDERING INFORMATION

Required Data	Customer Specification
Profile	HTD / AT / T / Imperial / STD / RPP-PAZ
Pitch	mm
Width	mm
Length	Open length or endless pitch length
Configuration	Open / Endless / Fabricated
Pulley data	Profile, tooth count and diameter
Load / Torque	Required transmission load
Speed	rpm or linear speed
Environment	Temperature, oil, chemical and humidity
Special processing	Backing, coating, machining, perforation or custom

8. PU ROUND & V-BELTS

World Prime Services polyurethane round and V-belts are thermoplastic PU transmission and conveying elements for light industrial drives, roller conveying and machine applications. The verified reference range is available in green rough, red smooth and reinforced constructions, with round-belt diameters from 2 mm to 22 mm and customized options.



PU ROUND BELTS



PU V-BELTS

VERIFIED GENERAL TECHNICAL DATA

Parameter	Specification
Material	Polyurethane (PU)
Available reference constructions	Green rough, Red smooth, Reinforced
Round-belt diameter range	2–22 mm
Pretension	1.5–3%
Standard hardness	85 Shore A
Round-belt tolerance, diameter <15 mm	±0.3 mm
Round-belt tolerance, diameter >15 mm	±0.5 mm
V-belt width tolerance	±0.5 mm
V-belt height tolerance	±0.5 mm
Customization	Available subject to specification

**ROUND BELT – SMOOTH / ROUGH**

Type	Diameter D (mm)	Pretension (%)	Standard Packing (m/roll)
ψ2S	2	1.5–3	400
ψ3S/R	3	1.5–3	400
ψ4S/R	4	1.5–3	200
ψ5S/R	5	1.5–3	200
ψ6S/R	6	1.5–3	200
ψ7S/R	7	1.5–3	100
ψ8S/R	8	1.5–3	100
ψ10S/R	10	1.5–3	50
ψ12S/R	12	1.5–3	30
ψ15S/R	15	1.5–3	30
ψ18S/R	18	1.5–3	30
ψ22S/R	22	1.5–3	30

ROUND BELT – SMOOTH / ROUGH REINFORCED

Type	Diameter D (mm)	Pretension (%)	Standard Packing (m/roll)
ψ10S/R	10	1.5–3	50
ψ12S/R	12	1.5–3	30
ψ15S/R	15	1.5–3	30
ψ18S/R	18	1.5–3	30



STANDARD V-BELT

Type	Width D (mm)	Height H (mm)	Pretension (%)
A-13/V	13	8	1.5–3

APPLICATIONS



Application	Typical Function
Conveying Systems	Light-duty roller drive and product transfer
Packaging Machinery	Machine drive and conveying functions
Textile Machinery	Roller transmission and process drives
Woodworking Equipment	Machine transmission and auxiliary drives
Printing Machinery	Roller and synchronized process movement
Food Processing Equipment	Machine drive where exact PU grade is suitable for the environment

SELECTION & PERFORMANCE CONSIDERATIONS

Property	Engineering Consideration
Diameter / Profile	Select according to pulley groove and transmitted load
Pretension	Verified reference range is 1.5–3%; final setting depends on drive geometry
Surface	Smooth or rough round belt according to friction requirement
Reinforcement	Use reinforced construction where higher tensile stability is required
Pulley Alignment	Maintain correct alignment to minimize edge and surface wear
Environment	Confirm oil, chemical, humidity and temperature compatibility
Joining	Specify endless welded length or open roll according to installation



ORDERING INFORMATION – ROUND BELT

Required Data	Customer Specification
Type	Smooth / Rough / Reinforced
Diameter	2–22 mm
Color / Surface	Green rough / Red smooth / other confirmed option
Length	Standard roll or cut length
Pretension	Application requirement
Pulley diameter	mm
Operating environment	Temperature, oil, chemical, humidity
Joining	Open / welded endless

ORDERING INFORMATION – V-BELT

Required Data	Customer Specification
Profile / Type	A-13/V or confirmed custom profile
Width × Height	mm
Length	Required length
Pretension	Application requirement
Pulley groove	Geometry and diameter
Load / Speed	Transmission duty
Operating environment	Temperature, oil, chemical, humidity



9. PVC & PU GUIDES

World Prime Services PVC and PU conveyor-belt guides are thermoplastic profiles designed to support belt tracking and lateral guidance. The verified reference range includes D-series PVC guides and UD-series PU guides in green, white and transparent colors, with defined $B \times H$ dimensions and minimum pulley diameters.



PVC GUIDES – VERIFIED TECHNICAL RANGE

Type	Hardness Shore A	B × H (mm)	Colors	Min. Diameter Top (mm)	Min. Diameter Bottom (mm)
D6	60	6 × 4	Green / White / Transparent	40	30
D8	60	8 × 5	Green / White / Transparent	50	40
D10	60	10 × 6	Green / White / Transparent	70	60
D13	60	13 × 8	Green / White / Transparent	100	80
D17	60	17 × 11	Green / White / Transparent	110	90
D22	60	22 × 14	Green / White / Transparent	180	120
D30	60	30 × 18	Green / White / Transparent	200	150

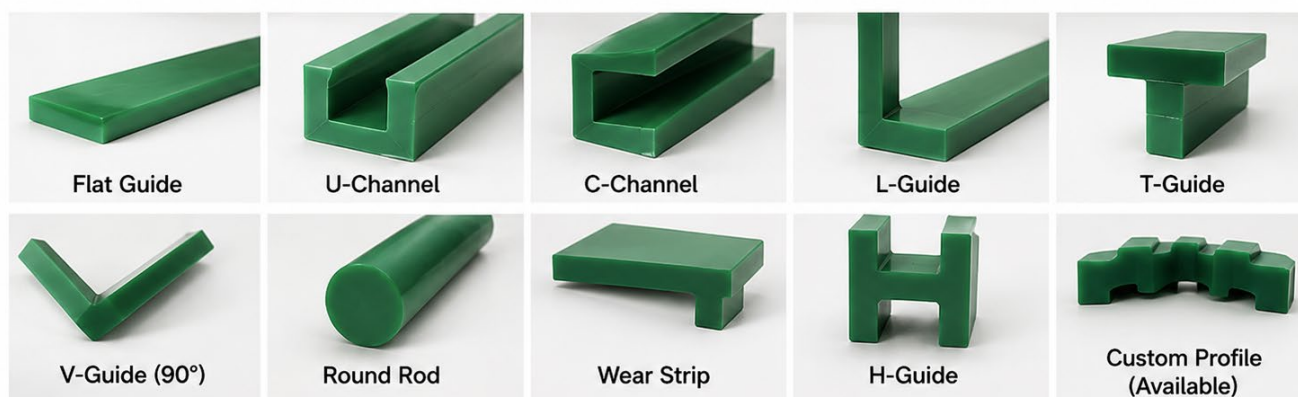


PU GUIDES – VERIFIED TECHNICAL RANGE

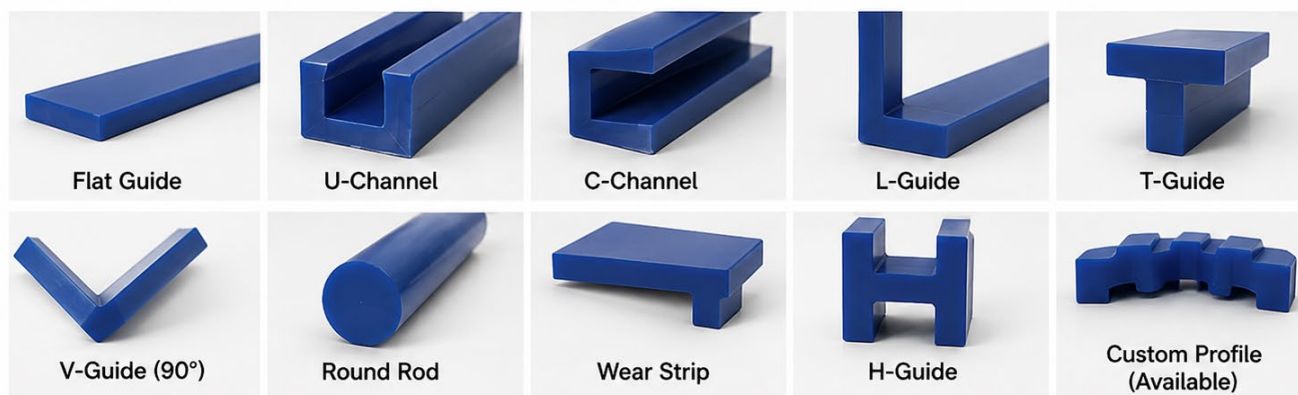
Type	Hardness Shore A	B × H (mm)	Colors	Min. Diameter Top (mm)	Min. Diameter Bottom (mm)
UD6	65	6 × 4	Green / White / Transparent	40	30
UD8	65	8 × 5	Green / White / Transparent	50	40
UD10	65	10 × 6	Green / White / Transparent	70	60
UD13	65	13 × 8	Green / White / Transparent	100	80
UD17	65	17 × 11	Green / White / Transparent	110	90

PROFILE VISUAL REFERENCE

PVC GUIDES



PU GUIDES



The visual profiles above are original representative illustrations for catalogue use. The verified public guide range itself is defined by the D-series (PVC) and UD-series (PU) B × H dimensions listed in the technical tables.

FUNCTION & APPLICATION



Function	Engineering Purpose
Belt Tracking	Helps maintain belt alignment when a compatible guide runs in a matching pulley or slider-bed groove
Lateral Guidance	Supports controlled belt path on conveyors with suitable guide geometry
Curved / Special Conveyors	Guide selection may assist tracking where conveyor geometry requires engineered lateral control
Incline / Decline Systems	Can be combined with application-specific belt fabrication where tracking support is required
Packaging & Logistics	Used on suitable light-duty conveying systems
Food Processing	PU or PVC material selection and compliance must match the exact food-contact requirement

MATERIAL SELECTION

Material	Reference Hardness	Selection Consideration
PVC Guide	60 Shore A	General PVC conveyor-belt fabrication and tracking applications
PU Guide	65 Shore A	PU belt fabrication and applications requiring a PU guide material

INSTALLATION & ENGINEERING CONSIDERATIONS

Item	Recommendation
Guide Position	Center or multiple-guide arrangement according to belt width and conveyor design
Groove Geometry	Pulley/bed groove must provide clearance appropriate to the selected guide profile
Minimum Diameter	Respect the top and bottom minimum diameters listed for each guide size
Splice Area	Guide joint and belt splice should be engineered to minimize stress concentration
Tracking	Guides assist tracking but do not replace correct pulley alignment, frame geometry and belt tension
Temperature / Chemicals	Confirm compatibility of the exact PVC or PU compound with service conditions

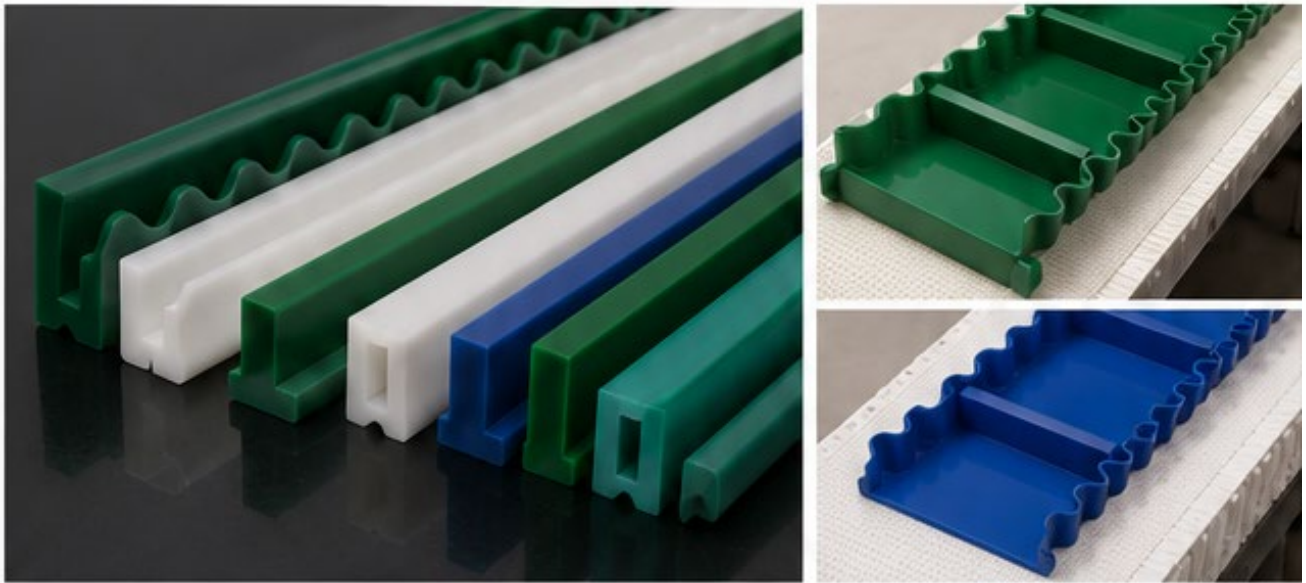
ORDERING INFORMATION

Required Data	Customer Specification
Material	PVC / PU
Guide Type	D6–D30 or UD6–UD17
B × H	mm
Color	Green / White / Transparent
Guide Position	Center / dual / multiple
Belt Width	mm
Belt Thickness	mm
Pulley Diameters	Top / bottom contact geometry
Operating Temperature	°C
Environment	Oil, fat, chemical, moisture, washdown
Fabrication	Guide only / guide welded to belt / custom



10. PVC & PU CLEATS / FLIGHTS

World Prime Services PVC and PU cleats / flights are thermoplastic profiles fabricated onto compatible conveyor belts to improve product retention, separation and controlled conveying, particularly on inclined or elevated conveyor systems. The verified reference range includes PVC T-series and X-series cleats and PU UT-series cleats.



PVC CLEATS – T SERIES (VERIFIED RANGE)

Type	Hardness	B × H (mm)	Colors	Minimum Diameter
T20	60 Shore A	20 × 20	Green / White / Transparent	90 mm
T30	60 Shore A	25 × 30	Green / White / Transparent	120 mm
T40	60 Shore A	25 × 40	Green / White / Transparent	120 mm
T50	60 Shore A	25 × 50	Green / White / Transparent	120 mm
T60	60 Shore A	40 × 60	Green / White / Transparent	150 mm
T75	60 Shore A	45 × 75	Green / White / Transparent	160 mm
T80	60 Shore A	47 × 80	Green / White / Transparent	180 mm



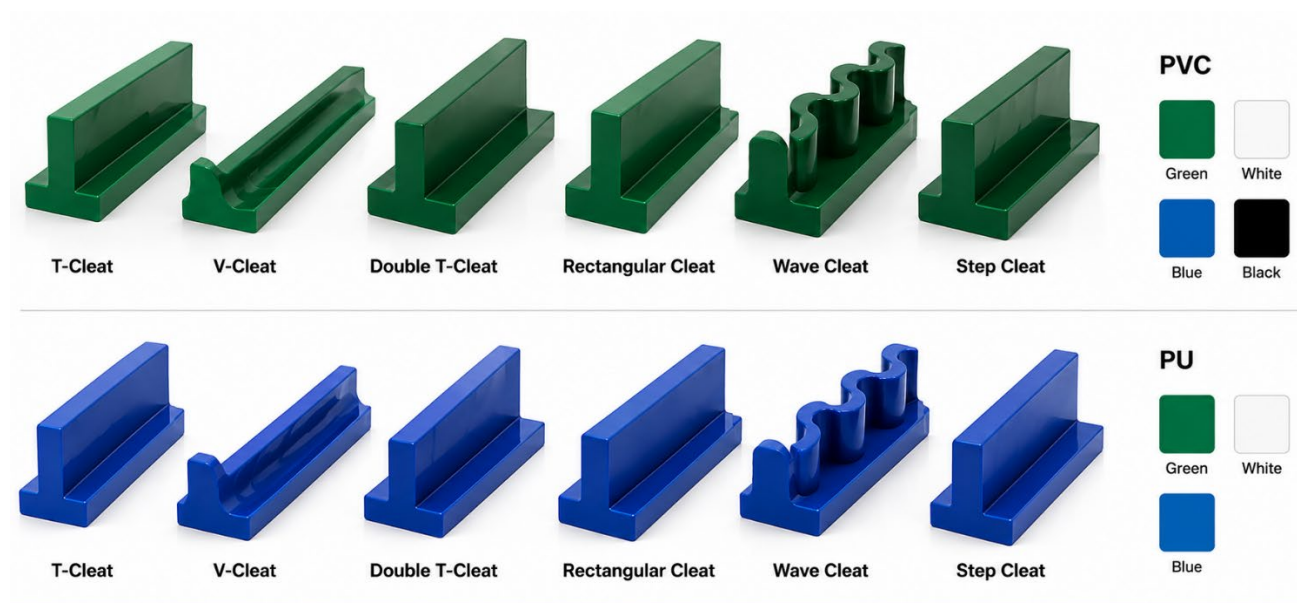
PVC CLEATS – X SERIES (VERIFIED RANGE)

Type	Hardness	B × H (mm)	Colors	Minimum Diameter
X30	60 Shore A	25 × 30	Green / White / Transparent	40 mm
X40	60 Shore A	30 × 40	Green / White / Transparent	60 mm
X50	60 Shore A	30 × 50	Green / White / Transparent	80 mm
X60	60 Shore A	35 × 60	Green / White / Transparent	80 mm
X70	60 Shore A	40 × 70	Green / White / Transparent	100 mm
X80	60 Shore A	43 × 80	Green / White / Transparent	120 mm

PU CLEATS – UT SERIES (VERIFIED RANGE)

Type	Hardness	B × H (mm)	Colors	Minimum Diameter
UT20	86 Shore A	10 × 20	Green / White / Transparent	35 mm
UT30	86 Shore A	15 × 30	Green / White / Transparent	40 mm
UT40	86 Shore A	15 × 40	Green / White / Transparent	40 mm

PROFILE & PRODUCT VISUAL REFERENCE



Photographs are original realistic catalogue representations of cleat/flight concepts. The verified dimensional product range is defined by the T, X and UT series tables above.

APPLICATIONS



Application	Typical Function
Incline Conveying	Helps reduce rollback and maintain product spacing
Package Handling	Separates cartons, parcels or individual products
Bulk Materials	Supports controlled movement of loose or fragmented materials
Logistics & Sorting	Creates product pockets and controlled spacing
Food Processing	PU/PVC material and food-contact compliance selected for exact application
Agriculture	Controlled conveying of grains and agricultural products
Recycling	Separation and elevation of suitable recyclable materials

MATERIAL & SERIES SELECTION

Series	Material	Hardness	Selection Position
T Series	PVC	60 Shore A	Higher-profile PVC cleats, 20–80 mm height
X Series	PVC	60 Shore A	PVC cleats with lower minimum pulley diameter on comparable heights
UT Series	PU	86 Shore A	Compact PU cleats, 20–40 mm height

ENGINEERING & INSTALLATION CONSIDERATIONS

Item	Recommendation
Cleat Height	Select according to product size, incline angle and required pocket volume
Cleat Pitch	Determine spacing from product dimensions, throughput and conveyor speed
Minimum Diameter	Respect the minimum diameter of the selected T, X or UT profile
Material Compatibility	Match PVC cleats to compatible PVC belts and PU cleats to compatible PU constructions
Welding / Bonding	Use a validated fabrication method suitable for belt and cleat materials
Edge Clearance	Provide adequate lateral clearance for conveyor frame and side structures
Belt Tracking	Cleats do not replace correct conveyor alignment, tension and tracking
Food Contact	Confirm compliance documentation for the exact belt and cleat compounds supplied



ORDERING INFORMATION

Required Data	Customer Specification
Material	PVC / PU
Series / Type	T20–T80 / X30–X80 / UT20–UT40
B × H	mm
Color	Green / White / Transparent
Cleat Pitch	mm center-to-center
Belt Width	mm
Edge Clearance	mm each side
Belt Type	Compatible PVC or PU belt construction
Pulley Diameter	mm
Incline Angle	degrees
Product Conveyed	Material, dimensions and load
Operating Environment	Temperature, oil, chemical, moisture, washdown
Fabrication	Straight / angled / custom arrangement



11. SIDEWALLS

HIGH PERFORMANCE • HIGH DURABILITY • CUSTOM SOLUTIONS

Sidewalls are used in combination with cleats on cleated belts to prevent product spillage and enable steep incline conveying.

Manufactured from high quality PVC or PU, our sidewalls offer excellent flexibility, impact resistance, chemical resistance and long service life.



FEATURES

Prevents material spillage on inclined conveyors

Made of high quality PVC or PU

High flexibility and excellent impact resistance

Resistant to abrasion, oil, grease and most chemicals

Easy welding and installation

Available in various heights and base widths

Can be produced in different colors and hardness

Suitable for a wide range of applications

APPLICATION PHOTOS



Mining & Aggregates



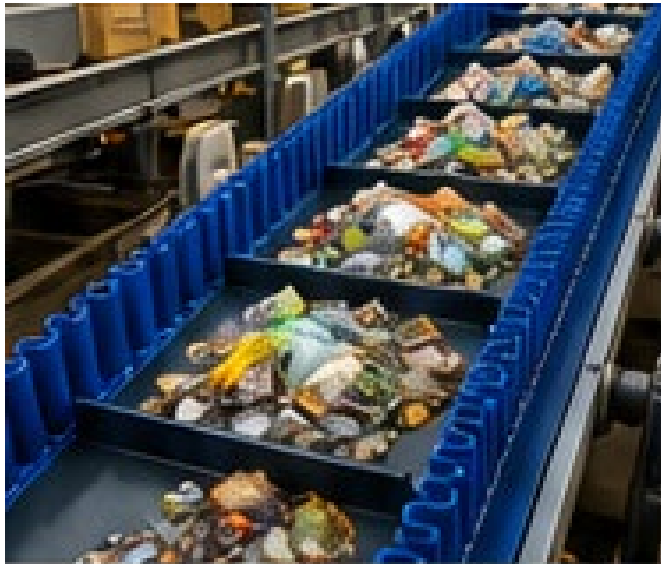
Food Processing



Cement Industry



Logistics & Packaging

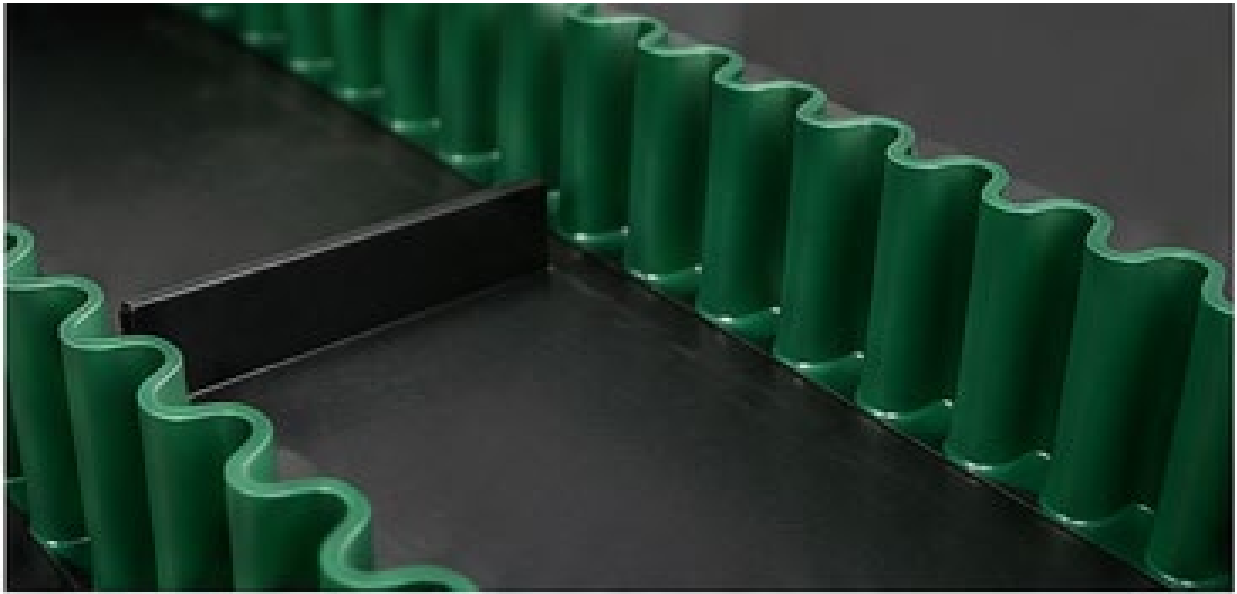


Recycling & Waste Management

STANDARD SIDEWALL PROFILES

Model	Material	Height (H) mm	Base Width (B) mm	Thickness (T) mm	Min. Pulley Dia. mm	Color
S40	PVC / PU	40	50	4.5	100	Green / White / Blue / Black
S60	PVC / PU	60	60	4.5	120	Green / White / Blue / Black
S80	PVC / PU	80	70	4.5	150	Green / White / Blue / Black
S100	PVC / PU	100	80	4.5	180	Green / White / Blue / Black
S120	PVC / PU	120	90	4.5	200	Green / White / Blue / Black
S160	PVC / PU	160	110	4.5	250	Green / White / Blue / Black

SIDEWALL WELDED ON CLEATED BELT



SIDEWALL FOR STEEP INCLINE CONVEYING



MATERIAL CHARACTERISTICS

Property	PVC	PU (Polyurethane)
Hardness (Shore A)	75–85	90–95
Tensile Strength (MPa)	≥ 20	≥ 40
Elongation at Break (%)	≥ 200	≥ 400
Abrasion Resistance	Good	Excellent
Chemical Resistance	Good	Excellent
Operating Temperature	-10 °C to +60 °C	-20 °C to +80 °C



SIDEWALL SELECTION GUIDE

Choose the appropriate height (H) based on the size and volume of the material.

Ensure the base width (B) is suitable for the cleat height and belt width.

Consider the minimum pulley diameter to prevent excessive stress and premature wear.

PU sidewalls are recommended for high wear applications and low temperature environments.

TYPICAL APPLICATIONS

Mining & Quarry

Cement Industry

Food Processing

Agriculture

Recycling & Waste Management

Ports & Logistics

Chemical Industry

SIDEWALL + CLEAT SYSTEM

Sidewalls and cleats work together to form compartments that carry the material without spillage, even on high incline conveyors.

ENGINEERING & INSTALLATION CONSIDERATIONS

Sidewalls are welded directly on the belt edges.

Proper welding parameters (temperature, pressure, time) are essential for strong bond.

Avoid sharp bends that may cause cracking.

Regular inspection is recommended.

AVAILABLE COLORS

Green	White	Blue	Black
Available	Available	Available	Available

ORDERING INFORMATION

Sidewall – [Material] – [Model] – [Height] – [Base Width] – [Thickness] – [Length] – [Color] –
[Special Requirement]

Example: Sidewall – PVC – S80 – H80 – B70 – T4.5 – L10000 – Green – FDA

Category	Options
Material Options	PVC (Polyvinyl Chloride); PU (Polyurethane)
Model Options	S40, S60, S80, S100, S120, S160; other sizes available on request
Color Options	Green, White, Blue, Black; other colors on request
Special Options	FDA / EU Food Grade; Anti-static; Oil resistant; Flame retardant



12. FILMS

PROTECTION • PERFORMANCE • RELIABILITY

World Prime Services conveyor films are thermoplastic surface films and cover materials for compatible conveyor-belt fabrication and specialized conveying duties. Depending on material, thickness and surface finish, films can modify friction, release behavior, cleanability, visibility and wear performance. The range presented includes colored patterned films as well as transparent clear and frosted film concepts.



FEATURES

High-grip and low-friction surface options

Smooth, matt, diamond, herringbone, cross, dot and fabric-imprint finishes

Transparent clear film for visibility and inspection applications

Transparent matt/frosted option for reduced glare and controlled appearance

PVC and PU material concepts subject to exact grade availability

Custom thicknesses, widths and colors subject to manufacturing confirmation

Special functional grades available only when certified for the exact supplied compound

TYPICAL APPLICATIONS



Application	Typical Requirement
Package Handling	Controlled friction for cartons, parcels and unit loads
Food Processing	Cleanable/release surface where exact grade has required food-contact compliance
Incline Conveying	High-grip pattern to reduce product rollback
Bottling & Packaging	Smooth transfer and controlled product handling
Airport & Logistics	High-cycle surface durability and application-specific friction
General Conveying	Surface finish selected for product and conveyor duty
Inspection / Visual Control	Transparent film where visibility through the film is required

STANDARD FILM / SURFACE TYPES

Type	Finish	Material	Colors	Indicative Thickness	Engineering Position
Diamond (High Grip)	Diamond pattern	PVC / PU	Green / White / Blue / Black	1.0 / 1.5 / 2.0 / 3.0 mm	High-friction patterned surface
Herringbone	Herringbone pattern	PVC / PU	Green / White / Blue / Black	1.0 / 1.5 / 2.0 / 3.0 mm	Directional grip / textured surface
Smooth (Low Friction)	Smooth	PVC / PU	Green / White / Blue / Black	0.8 / 1.0 / 1.5 / 2.0 mm	Sliding and transfer applications
Matt (Anti-Stick Concept)	Matt / textured	PVC / PU	White / Green / Blue	1.0 / 1.5 / 2.0 / 3.0 mm	Release-oriented textured surface
Cross / Grip Texture	Cross / fine texture	PVC / PU	Black / Green / Blue	1.0 / 1.5 / 2.0 / 3.0 mm	General-purpose grip
Dot (Stud)	Round dot pattern	PVC / PU	Green / White / Blue	1.0 / 1.5 / 2.0 / 3.0 mm	Raised grip / drainage concept
Fabric Imprint	Fabric impression	PVC	Blue / White / Green	1.0 / 1.5 / 2.0 mm	Textured light-duty surface

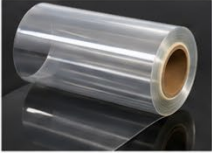
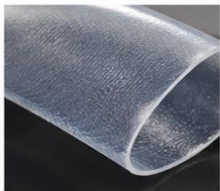
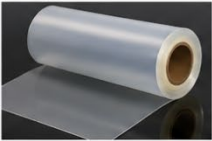
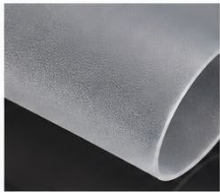


TRANSPARENT FILMS

Transparent and matt transparent films are used to improve belt surface performance while allowing visual inspection of the conveyed material. Available concepts include smooth crystal-clear films and matt/frosted translucent films for compatible PVC and PU applications.

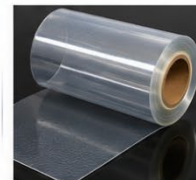
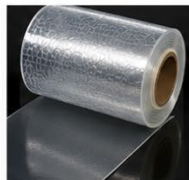
TRANSPARENT FILMS

Transparent and matt transparent films are used to improve belt surface performance while allowing visual inspection of the conveyed material. They provide good abrasion resistance, easy cleaning and high wear resistance.

Film Type	Surface Pattern / Finish	Material	Color	Thickness (mm)	Hardness (Shore A)	Key Properties	Photo
Transparent (Clear) 	Smooth / Clear	PVC / PU	Transparent (Clear)	0.8 / 1.0 / 1.5 / 2.0 / 3.0	60 – 85	Crystal clear, good abrasion resistance, easy cleaning and high wear resistance.	
Matt Transparent (Frosted) 	Matt / Frosted	PVC / PU	Transparent (Frosted)	1.0 / 1.5 / 2.0 / 3.0	60 – 85	Anti-glare surface, easy cleaning, good wear resistance and visual inspection capability.	

NOTES

- Available in rolls or sheets.
- Custom thickness, width and length available on request.
- Other hardness options available upon request.
- Suitable for food industry (food grade) and general industrial applications.



NOTES

Available in rolls or sheets.

Custom thickness, width and length available on request.

Other hardness options subject to manufacturing confirmation.

Food-contact suitability must be confirmed by certification for the exact supplied material grade.

Final technical properties depend on the selected PVC or PU compound.

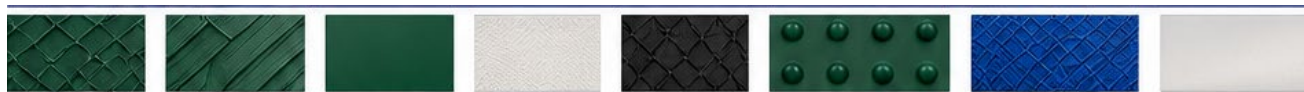
ORDERING DESIGNATION

WPS – FILM – [PVC/PU] – [CLEAR/FROSTED] – [THICKNESS] – [WIDTH] – [LENGTH]

Type	Surface / Finish	Material Concept	Color	Indicative Thickness	Key Properties / Use
Transparent (Clear)	Smooth / Clear	PVC / PU	Transparent	0.8 / 1.0 / 1.5 / 2.0 / 3.0 mm	Visibility, inspection, visual control, clean appearance; exact optical clarity depends on grade and thickness
Matt Transparent (Frosted)	Matt / Frosted	PVC / PU	Transparent / Frosted	1.0 / 1.5 / 2.0 / 3.0 mm	Reduced glare, translucent appearance and application-specific release behavior

Transparent film is now included as a dedicated product family. Exact transparency, haze, gloss, hardness, food-contact status, antistatic performance and chemical resistance must be specified and certified for the exact supplied PVC or PU grade.

SURFACE PATTERN EXAMPLES



Pattern	Typical Function
Diamond	High grip
Herringbone	Directional grip
Smooth	Low friction / clean transfer
Matt	Release-oriented texture
Cross	General grip
Dot (Stud)	Raised grip / drainage
Fabric Imprint	Textured running surface
Transparent	Visibility / visual inspection

MATERIAL SELECTION

Material	General Position	Important Confirmation
PVC Film	Cost-effective thermoplastic film for compatible PVC conveyor constructions	Hardness, plasticizer system, temperature, oil/chemical resistance and regulatory compliance
PU Film	Polyurethane film for compatible PU constructions and higher-performance surface applications	Hardness, abrasion/cut resistance, hydrolysis, oil/fat resistance, temperature and compliance
Transparent PVC / PU	Clear or translucent film concept	Optical clarity, haze, gloss, yellowing resistance, thickness and exact compound



MATERIAL CHARACTERISTICS – ENGINEERING FRAMEWORK

Property	PVC	PU
Hardness	Grade dependent; commonly specified by Shore A	Grade dependent; commonly specified by Shore A
Tensile Strength	Confirm exact compound datasheet	Confirm exact compound datasheet
Elongation	Confirm exact compound datasheet	Confirm exact compound datasheet
Abrasion Resistance	Compound dependent	Typically selected where higher abrasion performance is required
Chemical Resistance	Confirm chemical compatibility	Confirm chemical compatibility
Operating Temperature	Confirm exact grade	Confirm exact grade
Transparency	Available on suitable clear grades	Available on suitable clear grades

FILM SELECTION GUIDE

Choose film according to required friction, wear, release and environment.

Use high-grip patterns for incline or wet conditions where technically suitable.

Use low-friction films for sliding and accumulation duties.

Use matt surfaces for application-specific release and reduced surface adhesion.

Use transparent clear films where inspection, visibility or visual control is required.

Use transparent frosted films where translucency and reduced glare are preferred.

Confirm pulley diameter and flexibility when film is laminated to a conveyor belt.

ENGINEERING & INSTALLATION CONSIDERATIONS

Item	Recommendation
Surface Preparation	Ensure compatible belt surface is clean, dry and properly prepared
Bonding / Lamination	Use validated cold bonding, hot bonding, lamination or vulcanization process as applicable
Temperature / Pressure / Time	Follow parameters validated for exact film and base-belt materials
Pattern Direction	Orient directional texture according to conveying direction
Film Thickness	Consider flexibility, pulley diameter and surface life
Splice / Joint	Avoid abrupt overlap or joint geometry that may affect tracking or product transfer
Inspection	Check for delamination, cuts, bubbles, wear and surface damage



AVAILABLE COLORS

Color	Availability
Green	Subject to material grade
White	Subject to material grade
Blue	Subject to material grade
Black	Subject to material grade
Transparent / Clear	Available on suitable clear PVC or PU grades
Transparent / Frosted	Available on suitable translucent grades
Custom Colors	Subject to manufacturing confirmation

ORDERING INFORMATION

Required Data	Customer Specification
Material	PVC / PU
Film Type	Colored / Transparent Clear / Transparent Frosted
Surface	Diamond / Herringbone / Smooth / Matt / Cross / Dot / Fabric Imprint / Custom
Thickness	mm
Width	mm
Length	m or mm
Color	Green / White / Blue / Black / Transparent / Custom
Optical Requirement	Clear / translucent / frosted / haze target if applicable
Application	Conveyor and conveyed product
Base Belt	If film will be laminated/fabricated
Temperature	°C
Environment	Oil, fat, chemicals, moisture, washdown
Special Requirement	Food-contact / antistatic / flame retardant / oil resistant only when certified for exact grade



13. SILICONE MOULDED COMPONENTS

World Prime Services silicone moulded components are custom-engineered elastomer parts for conveyor systems, automation equipment and industrial machinery. Product configurations may include rollers, bushings, wheels, seals, suction cups, pads, guides, sleeves and components manufactured to approved drawings or samples.



PRODUCT FEATURES

- Flexible silicone elastomer construction
- Wide range of moulded geometries and sizes
- Available in multiple hardness grades and colors
- Good resilience and vibration damping
- Resistance to weathering, ozone and aging typical of suitable silicone compounds
- High-temperature grades available subject to exact compound specification
- Food-contact grades available only with certification for the exact supplied material
- Custom moulding according to drawing, sample or dimensional specification

TYPICAL APPLICATIONS



Application	Typical Use
Food & Beverage	Rollers, seals, suction and handling components using compliant grades
Packaging	Guides, wheels, rollers, pads and custom handling parts
Incline Conveying	Special support, guide or contact components
Sorting Systems	Wheels, rollers, bumpers and handling components
Textile Industry	Rollers, sleeves and resilient contact parts
Airport & Logistics	Guide wheels, rollers and wear/contact components

STANDARD COMPONENT FAMILIES

Component	Description	Material	Typical Hardness Range*	Typical Color Options
Rollers	Drive, idler and guide roller concepts; bearing option subject to design	Silicone	50–80 Shore A	White / Blue / Green / Red / Translucent
Bushings	Damping, isolation and wear-contact bushings	Silicone	50–80 Shore A	White / Blue / Green / Red / Translucent
Wheels	Conveyor and guide wheels; bearing option subject to design	Silicone	50–80 Shore A	White / Blue / Green / Red / Translucent
Seals	Static and dynamic sealing geometries	Silicone	50–70 Shore A	White / Blue / Green / Red / Translucent
Suction Cups	Vacuum gripping components	Silicone	40–60 Shore A	Translucent / Blue / Green
Custom Parts	Moulded parts according to approved drawing or sample	Silicone	40–80 Shore A	Custom subject to compound availability

*Indicative catalogue ranges. Final hardness and compound must be confirmed for the exact application.



REALISTIC PRODUCT REFERENCES

Component	Description	Material	Hardness (Shore A)	Temperature Range	Standard Colors	Photo
Rollers	Drive, Idler and Guide Rollers with or without bearing	Silicone	50 – 70 – 80	-60°C to +250°C	White, Blue, Green, Red, Translucent	
Bushings	Damping and wear resistant bushings	Silicone	50 – 60 – 70 – 80	-60°C to +250°C	White, Blue, Green, Red, Translucent	
Wheels	Conveyor and Guide Wheels with or without bearing	Silicone	50 – 70 – 80	-60°C to +250°C	White, Blue, Green, Red, Translucent	
Seals	Static and dynamic sealing components	Silicone	50 – 60 – 70	-60°C to +250°C	White, Blue, Green, Red, Translucent	
Suction Cups	Vacuum and gripping applications	Silicone	40 – 50 – 60	-60°C to +200°C	Translucent, Blue, Green	
Custom Parts	Custom moulded parts as per drawing or sample	Silicone	40 – 50 – 60 – 70 – 80	-60°C to +250°C	All colors available on request	

Note: All table text is editable in Microsoft Word. Product photographs are inserted as separate images and can be replaced, resized or deleted.

MATERIAL PROPERTIES – ENGINEERING FRAMEWORK

Property	Specification Basis
Hardness	Specify required Shore A according to function and deformation
Tensile Strength	Confirm exact compound technical datasheet
Elongation at Break	Confirm exact compound technical datasheet
Tear Strength	Confirm exact compound technical datasheet
Compression Set	Confirm exact compound, temperature and test duration
Operating Temperature	Select silicone grade according to continuous and peak service temperature
Food Contact	Requires certification for exact compound and intended jurisdiction
Chemical Resistance	Verify compatibility with actual oil, solvent, cleaner or process chemical



MATERIAL ADVANTAGES

- Wide usable temperature capability with properly selected silicone grade
- Good resistance to UV, ozone and environmental aging
- High elasticity and resilience
- Electrical insulation potential depending on compound
- Color and translucency options
- Custom hardness and formulation options subject to manufacturing capability

AVAILABLE COLORS

Color	Availability
White	Standard concept
Blue	Subject to compound
Green	Subject to compound
Red	Subject to compound
Translucent	Available with suitable silicone grades
Custom	Subject to pigment and compound requirements

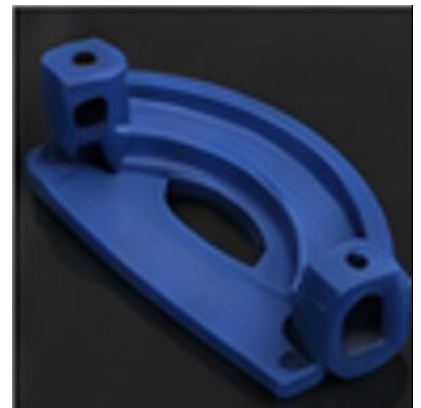
CUSTOM SOLUTIONS

We offer customised silicone components according to your:

Drawings

Samples

Specifications



CUSTOM MOULDED COMPONENTS

Custom silicone components can be developed according to approved drawings, physical samples or detailed technical specifications. Final material grade, hardness, color, dimensions, tolerances and functional requirements shall be confirmed before production.



Customer Input	Required Information
Drawing	2D/3D drawing with dimensions and tolerances
Sample	Physical sample for reverse dimensional assessment where permitted
Hardness	Required Shore A
Color	Required color / translucency
Quantity	Prototype and production quantity
Environment	Temperature, chemicals, oils, washdown and UV exposure
Compliance	Food contact or other certification requirements
Insert / Bearing	Metal or polymer insert, bearing or bonded component if required

DESIGN & MANUFACTURING CONSIDERATIONS

Item	Engineering Consideration
Geometry	Wall thickness, draft, undercuts and parting line affect mouldability
Tolerance	Define critical dimensions separately from general dimensions
Hardness	Influences deformation, grip, sealing and wear behavior
Metal Inserts	Insert bonding and retention must be engineered for load and temperature
Surface Finish	Smooth, matt or textured finish subject to tooling
Prototype	Prototype/tool trial recommended for critical custom parts
Quality Control	Dimensional and visual criteria should be defined on approved drawing

ORDERING INFORMATION

Required Data	Customer Specification
Component Type	Roller / Bushing / Wheel / Seal / Suction Cup / Custom
Material	Silicone compound / required grade
Hardness	Shore A
Color	Required color
Dimensions	Drawing number or complete dimensions
Quantity	pcs
Temperature	Continuous / peak °C
Chemical Exposure	Specify chemicals, oils and cleaners
Insert / Bearing	Type and material
Special Compliance	Food-contact or other certification
Special Requirement	High temperature / antistatic / flame behavior / custom moulding, subject to validated compound



14. FABRICATION & JOINING

World Prime Services provides conveyor-belt fabrication and joining solutions for compatible light-duty thermoplastic belting. Fabrication may include belt cutting, finger preparation, endless joining, profiles, guides, cleats/flights, sidewalls, perforation and custom machining. The correct joining method must be selected according to the exact belt construction and manufacturer-approved process.



FEATURES

- Precision belt preparation and fabrication
- Joining selected for the exact belt construction
- Custom belt width and endless length
- Finger-splice preparation for compatible thermoplastic belts
- Profiles, guides, cleats and sidewall fabrication
- Punching, drilling, routing and custom shapes
- Mechanical fastening where suitable
- Quality inspection of finished belt dimensions and joint condition

TYPICAL APPLICATIONS



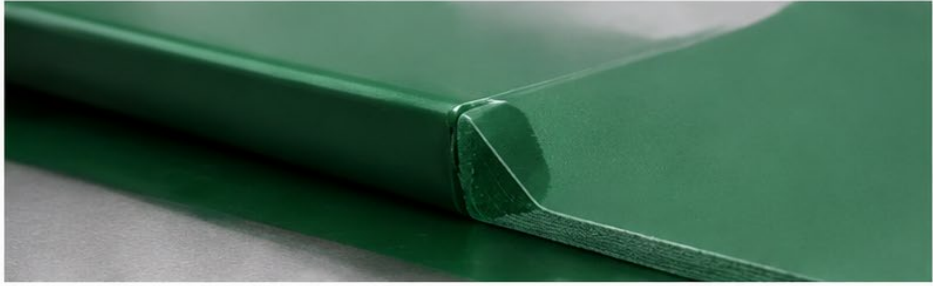
Application	Typical Fabrication Requirement
Food & Beverage	Endless joining, profiles, cleats and hygienic fabrication where certified materials are used
Packaging & Logistics	Endless belts, tracking guides, mechanical fasteners and custom widths
Incline Conveying	Cleats/flights and sidewalls combined with compatible joining
Bottling & Packaging	Precision endless belts and surface-specific fabrication
Food Processing	Finger splices and fabricated profiles subject to exact belt specification
Airport & Handling	PVK/PVC logistics belt joining and service-oriented fastening options

JOINING METHODS

Method	Description	Typical Use	Compatibility / Notes
Single / One Finger	Finger geometry prepared at belt ends and joined using an approved thermoplastic press process	Compatible belt constructions requiring finger splice	Public reference datasheets include 'One finger' as a joining method
Double Finger	Two-stage/interlocking finger preparation depending on belt construction	Selected PVC/PU belt constructions	Public reference datasheet for type 30P25-15A lists 'Double finger'
Three-Layer Finger	Layered finger-splice construction for selected multi-layer belts	Selected thicker/multi-layer belt constructions	Public reference datasheet for type 90P32-46/43 lists 'Three-layer finger'
Hot Press / Thermoplastic Joining	Controlled heat, pressure and time used to form an endless joint	PVC/PU and other compatible thermoplastic constructions	Parameters must follow exact belt specification
Mechanical Fastening	Metal or polymer fasteners connect prepared belt ends	Field installation, rapid replacement or service access	Fastener type must suit belt thickness, pulley diameter and application
Cold Bonding	Adhesive-based joining or repair for compatible materials	Application-specific fabrication or repair	Use only validated adhesive and preparation system
Loop / Prepared Joint	Prepared belt-end configuration for application-specific endless installation	Selected specialty belts	Final geometry subject to belt design



FABRICATION & JOINING – PHOTOS

HOT AIR WELDING (THERMOPLASTIC BELT)	
FINGER SPLICING (MECHANICAL)	
LOOP SPLICING	
COLD BONDING	
MECHANICAL FASTENING	



15. INDUSTRY APPLICATIONS

INDUSTRY APPLICATIONS

PVC • PU • MODULAR BELTS • SPECIAL BELTS

Our conveyor belts are designed to meet the demanding requirements of a wide range of industries. Different materials and surface patterns ensure optimal performance, hygiene, durability and efficiency in every application.



INDUSTRIES & APPLICATIONS OVERVIEW

FOOD & BEVERAGE	PACKAGING & LOGISTICS	INCLINE CONVEYING	BOTTLING & PACKAGING	TEXTILE INDUSTRY	AIRPORT & HANDLING
Hygienic belts for food processing, packaging and product handling.	Reliable transport of boxes, parcels and packages in automated systems.	High grip belts for steep inclines and decline applications.	Smooth and modular belts for accumulation, transfer and packaging lines.	Special belts for fabric handling, cutting and textile processing.	Durable belts for baggage handling and airport logistics systems.

BELT SOLUTIONS BY INDUSTRY

Industry	Typical Applications	Recommended Belts	Material	Surface / Pattern	Key Benefits	Photo
	Food processing Packaging lines Sorting & inspection Cooling / freezing lines	Hygienic PVC Belt PU Food Grade Belt Modular Belt	PVC PU POM / PP	Smooth / Matt Diamond / Herringbone Flat Top	Food grade, easy cleaning, oil & fat resistant, high hygiene.	
	Box & carton transport Buffer & accumulation Sortation systems Pallet handling	PVC Belt PU Belt Modular Belt	PVC PU PP	Smooth Diamond Mini Rough Top	Wear resistant, low noise, stable running, long service life.	
	Incline transport Cleated belt systems Heavy load transport Decline applications	PVC Belt (Cleated) PU Belt (Cleated) Rough Top Belt	PVC PU	Cleats / Sidewalls Herringbone Rough Top	High grip, high load capacity, prevents slippage.	
	Bottle accumulation Filling lines Shrink wrapping Carton packing	Modular Belt Flat Top Chain PU Belt	POM PP PU	Flat Top Flush Grid Smooth	Modular design, easy maintenance, precise transport.	
	Fabric transport Cutting tables Spreader lines Finishing lines	PVC Belt PU Belt Special Coated Belt	PVC PU	Smooth Matt Fabric Imprint	Anti-static options, fabric friendly surface, precise movement.	
	Baggage handling Security screening Conveying systems Logistics transport	PVC Belt PU Belt Modular Belt	PVC PU PP	Smooth Diamond High Friction	High wear resistance, impact resistant, reliable operation.	

BELT TYPES & MATERIALS

Belt Type	Material	Properties	Operating Temp.	Color Options	Typical Thickness (mm)
PVC Conveyor Belt	PVC (Polyvinyl Chloride)	Good chemical resistance, easy cleaning, economical	-10°C to +60°C		0.8 – 5.0
PU Conveyor Belt	PU (Polyurethane)	Excellent abrasion resistance, high flexibility, food grade	-20°C to +80°C		0.8 – 5.0
Hygienic PU Belt	PU (Food Grade)	FDA / EU compliant, antimicrobial options	-20°C to +80°C		1.0 – 3.0
Modular Belt	POM / PP	High strength, easy cleaning, quick installation	-40°C to +90°C		8.0 – 25.0
Special Belt	PVC / PU / Silicone	Special properties: oil resistant, heat resistant, anti-static	-30°C to +120°C		1.0 – 6.0

SURFACE PATTERNS

Smooth	Matt	Diamond	Herringbone
Mini Rough Top	Fabric Imprint	Cleated	Sidewall

KEY BENEFITS

- Wide range of materials for every application
- High resistance to wear, oil, chemicals and impact
- Food grade and hygienic options available
- Custom sizes, colors and patterns on request
- Fast delivery and global support

APPLICATION EXAMPLES



ORDERING INFORMATION

To ensure the correct belt for your application, please provide:

- Belt type and material
- Thickness and width
- Length / Roll size
- Surface pattern
- Color
- Special requirements (food grade, oil resistant, anti-static, etc.)
- Application and operating conditions

BELT TYPE CODE SYSTEM (EXAMPLE)

WP	-	B	-	PU	-	2.0	-	1000	-	S	-	G	-	50	
Brand		Belt Type		Material		Special Feature		Thickness (mm)		Width (mm)		Surface Pattern		Color	Length (m)
WP = World Prime Services		B = Belt M = Modular S = Special		PVC PU POM PP		FG = Food Grade AS = Anti-static OR = Oil Resistant HR = Heat Resistant		Example: 2.0 mm		Example: 1000 mm		S = Smooth D = Diamond H = Herringbone R = Rough Top		G = Green B = Blue W = White K = Black	Example: 50 m



Industry	Typical Belt Requirements
Stone & Ceramics	Grip, abrasion resistance, positioning
Logistics & Airport	Low noise, antistatic, high speed, PVK / PVC grip
Food	Cleanability, PU/PE, oil/fat resistance, food-contact specification
Wood	Grip and abrasion resistance
Treadmill	Low noise, dimensional stability, controlled friction
Electronics	Antistatic and precision conveying
Tobacco	Lightweight process conveying
Automotive & Tyre	Wear resistance and process-specific surfaces
Textile & Printing	Low elongation, dimensional stability, low noise, clean edges



16. ORDERING & SELECTION DATA

Required Data	Customer Information
Material	PVC / PU / PE / TPEE / Silicone / PVK
Width and length	mm; open or endless
Thickness and ply	Required construction
Top / bottom pattern	Surface code or description
Color	Required color
Load and speed	kg and m/s
Pulley diameters	Drive, tail, snub
Temperature	Minimum / maximum
Environment	Oil, fat, chemical, moisture, outdoor
Special property	Antistatic, flame retardant, low noise, cold resistant, food-contact
Fabrication	Guide, cleat, sidewall, perforation, splice