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Drive Belts

Conveyor Belts

Weighing Belts

Machine Belts

Process Belts

Vacuum Belts

Vacuum Timing Belts

Thermo Belts

Special Belts

Food Belts

Belt Coating Materials

THE MATERIALS ARE RIGHT TO MAKE THE BELTS.



ENDLESS DRIVE AND
CONVEYOR BELTS WITH
HYTREL® COATING



HYTREL® is a thermoplastic polyester elastomer, combining many important properties of highly durable elastomers and flexible plastics.

In a truly endless manufacturing process we use this material to coat our endless carcasses or manufacture elastic belts without reinforcement. Generally, coating combinations are possible.

Properties of HYTREL®:

- abrasion-resistant
- very good long term fatigue-resistance
- flexible at temperatures as low as -40°C (-40°F)
- good tear resistance
- minor loss of tension during operation
- very good resistance to microbes and weather
- very good resistance to mineral oils, grease, water, alcohols and glycols

Applications for elastic HYTREL® belts:

- used with fixed shaft centers
- used as matched sets
- excellent running properties
- paper and receipt conveying (ATM's)
- check sorting
- credit card feeder
- vacuum conveyors (perforations as per customer requirements, hole diameters from 1.5 mm up to 12 mm)
- weighing belts

Applications for HYTREL® belts with carcass reinforcement:

- drive belts for low temperatures
- transversally stiff belts (also applicable for edge guiding)
- machine belts for paper conveying
- machine belts for printing industry
- conveying belts for personal hygiene industry
- vacuum conveyors (perforations as per customer requirements, hole diameters from 1.5 mm up to 12 mm)

Endless Flat Belts
with HYTREL® Coating

Statements in this brochure represent the current technology status. The given values are for informational purposes only.

They do not constitute a warranty of any product properties.

ESBAND designation		running side										
type	version	tensile element	anti-static	minimum pulley diameter*	FDA approval	material	hardness	surface	colour	coefficient of friction (μ ± 0.1 μ)		
										steel	anodized aluminum	stainless steel
HT-Elastic 30	white	Hytrel®	no	8 mm	yes	Hytrel®	30° Shore D	smooth	white	0.5	0.7	0.9
HT-Elastic 30	white + silicone	Hytrel®	no	15 mm	yes	Hytrel®	30° Shore D	ground	white	0.4	0.5	0.4
HT-Elastic 40	white	Hytrel®	no	10 mm	no	Hytrel®	40° Shore D	ground	white	0.5	0.6	0.4
HT-Elastic 40	white + polyurethane	Hytrel®	no	15 mm	no	Hytrel®	40° Shore D	ground	white	0.5	0.6	0.4
HT-Elastic 40	black	Hytrel®	yes	10 mm	no	Hytrel®	40° Shore D	ground	black	0.5	0.6	0.4
HT-Elastic 40	black + polyurethane	Hytrel®	yes	15 mm	no	Hytrel®	40° Shore D	ground	black	0.5	0.6	0.4
HT 4011	white	polyester	possible	20 mm	no	Hytrel®	40° Shore D	ground	white	0.5	0.6	0.4
HT 4011	white + polyurethane	polyester	possible	30 mm	no	Hytrel®	40° Shore D	ground	white	0.5	0.6	0.4
HT 4017	white + polyurethane	Kevlar®	possible	30 mm	no	Hytrel®	40° Shore D	ground	white	0.5	0.6	0.4
HT 6320	white + silicone	polyester/cotton	no	60 mm	yes, on carrying side	Hytrel®	63° Shore D	ground	white	0.2	0.3	0.2

* at minimum thickness

carrying side						allowable operating temperature	shaft load for 1% elongation	standard production dimensions**			standard tolerances**			properties/ applications
material	hardness	surface	colour	coefficient of friction [μ ± 0.1 μ]				length [mm]	width [mm]	thickness [mm]	length [mm]	width [mm]	thickness [mm]	
				paper	PE-foil									
Hytrel®	30° Shore D	ground	white	0.5	0.2	-40 up to +60° C	0.33 N/mm² Hytrel®	200 up to 600 600 up to 1800	3 up to 150 8 up to 400	0.6 up to 0.8 0.8 up to 1.5	± 1.0 %	up to 50 mm ± 0,5 mm up to 100 mm ± 1,0 mm > 100 mm ± 2,0 mm	± 0.10 mm	elastic, suitable for fixed shaft centers, excellent running properties, weighing belt/receipt conveying
silicone	35° Shore A	adhesive (not ground)	grey	0.6	0.3	-40 up to +60° C	0.33 N/mm² Hytrel®	200 up to 600 600 up to 1200	3 up to 150 8 up to 400	1.2 up to 1.5 1.5 up to 2.0	± 1.0 %	up to 50 mm ± 0,5 mm up to 100 mm ± 1,0 mm > 100 mm ± 2,0 mm	± 0.15 mm	elastic, suitable for fixed shaft centers, dirt-resistant, food conveying
Hytrel®	40° Shore D	ground	white	0.5	0.1	-40 up to +100° C	0.83 N/mm² Hytrel®	200 up to 600 600 up to 1800	3 up to 150 8 up to 400	0.6 up to 0.8 0.8 up to 1.5	± 1.0 %	up to 50 mm ± 0,5 mm up to 100 mm ± 1,0 mm > 100 mm ± 2,0 mm	± 0.10 mm	elastic, abrasion-resistant, good relaxation, general conveying applications
polyurethane	~55° Shore A	ground	grey	0.8	0.2	-10 up to +60° C	0.83 N/mm² Hytrel®	200 up to 600 600 up to 1800	3 up to 150 8 up to 400	1.2 up to 1.5 1.5 up to 2.0	± 1.0 %	up to 50 mm ± 0,5 mm up to 100 mm ± 1,0 mm > 100 mm ± 2,0 mm	± 0.10 mm	elastic conveyor belt, high coefficient of friction, paper and receipt conveying
Hytrel®	40° Shore D	ground	black	0.5	0.1	-40 up to +100° C	0.83 N/mm² Hytrel®	200 up to 600 600 up to 1800	3 up to 150 8 up to 400	0.6 up to 0.8 0.8 up to 1.5	± 1.0 %	up to 50 mm ± 0,5 mm up to 100 mm ± 1,0 mm > 100 mm ± 2,0 mm	± 0.10 mm	elastic, abrasion-resistant, good relaxation, general conveying applications
polyurethane	~55° Shore A	ground	grey	0.8	0.2	-10 up to +60° C	0.83 N/mm² Hytrel®	200 up to 600 600 up to 1800	3 up to 150 8 up to 400	1.2 up to 1.5 1.5 up to 2.0	± 1.0 %	up to 50 mm ± 0,5 mm up to 100 mm ± 1,0 mm > 100 mm ± 2,0 mm	± 0.10 mm	elastic conveyor belt, high coefficient of friction, paper- and receipt conveying
Hytrel®	40° Shore D	ground	white	0.5	0.1	-40 up to +100° C	290 N/cm	450 up to 1000 1000 up to 4000	5 up to 300 5 up to 600	1.2 up to 3.0	± 0.5 %	up to 50 mm ± 0,5 mm up to 100 mm ± 1,0 mm > 100 mm ± 2,0 mm	± 0.10 mm	for driving and conveying, transvers- ally stiff, abrasion-resistant, general driving and conveying applications
polyurethane	~55° Shore A	ground	grey	0.8	0.2	-10 up to +60° C	290 N/cm	450 up to 1000 1000 up to 4000	5 up to 300 5 up to 600	1.6 up to 5.0	± 0.5 %	up to 50 mm ± 0,5 mm up to 100 mm ± 1,0 mm > 100 mm ± 2,0 mm	± 0.10 mm	general conveying applications, high coefficient of friction, abrasion-resistant PU coating
polyurethane	~55° Shore A	ground	yellow	0.8	0.2	-10 up to +60° C	1000 N/cm	450 up to 1000 1000 up to 4000	5 up to 300 5 up to 600	1.6 up to 5.0	± 1.0 %	up to 50 mm ± 0,5 mm up to 100 mm ± 1,0 mm > 100 mm ± 2,0 mm	± 0.10 mm	for driving and conveying, trans- versally stiff, abrasion-resistant, very low elongation, tear-resistant
silicone	35° Shore A	ground	grey	0.6	0.3	-40 up to +160° C	75 N/cm	450 up to 1000 1000 up to 4000	5 up to 300 5 up to 600	2.0 up to 5.0	± 0.5 %	up to 50 mm ± 0,5 mm up to 100 mm ± 1,0 mm > 100 mm ± 2,0 mm	± 0.10 mm	extremely transversally stiff conveying belt, abrasion-resistant, hard running side, dirt-resistant carrying side
** other dimensions and tolerances available on request														