

**Endless Flat Belts
with HYTREL® Coating**

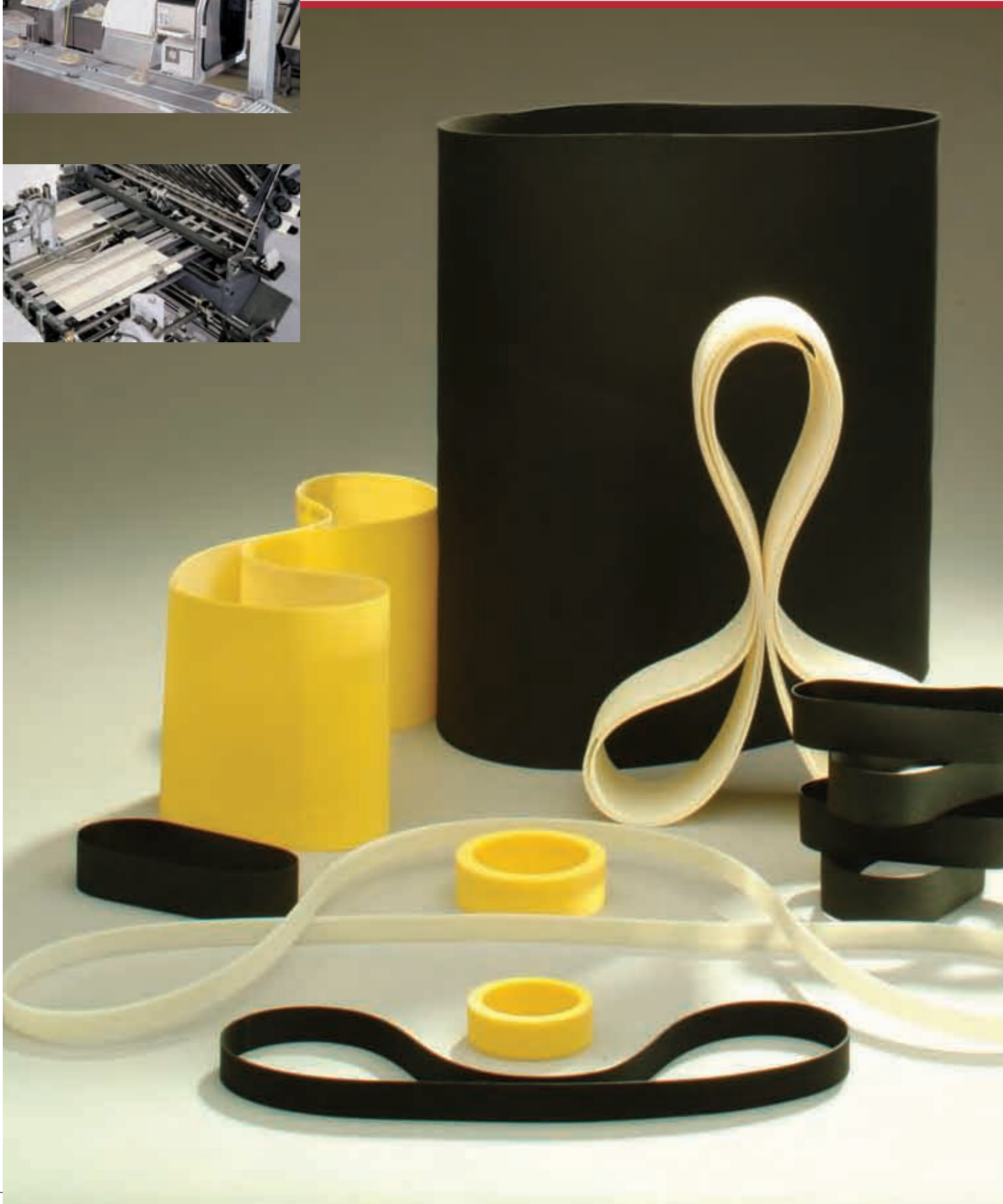
ESBAND designation		running side										
type	version	tensile element	anti-static	minimum pulley diameter*	FDA approval	material	hardness	surface	colour	coefficient of friction [$\mu \pm 0.1 \mu$]		
										steel	anodized aluminum	stainless steel
HT-Elastic 30	white	Hytrel®	no	8 mm	yes	Hytrel®	30° 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 [$\mu \pm 0.1 \mu$]				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, transversally 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, transversally 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

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.



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Max Schlatterer
GmbH & Co. KG
Alt-Ulmer-Strasse
D-89542 Herbrechtingen
Phone +49(0) 73 24/15-0
Fax +49(0) 73 24/15-280
info@esband.de
www.esband.de

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- Vacuum Timing Belts
- Thermo Belts
- Special Belts
- Food Belts
- Belt Coating Materials

We reserve the right to make technical alterations.



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)