

Thermoweldable Belts

Round, ridge top, pentagonal and trapezoidal belts.

Resistant and with high load capacity.



Thermoweldable Belts

Round Belts

Section	Type	ø (d) mm	Roll length m	Weight g/m	Min. pulley ø mm
TPU without reinforcement	Hardness 88 °ShA Smooth Green 14				
	RS88LO3	3	100	9	25
	RS88LO4	4	100	15	40
	RS88LO5	5	100	24	50
	RS88LO6	6	100	34	60
	RS88LO7	7	100	46	60
	RS88LO8	8	100	60	80
	RS88LI0	10	50	94	100
	RS88LI2	12	50	135	120
	RS88LI5	15	50	212	150
	Hardness 88 °ShA Rough Green 14				
	RS88RO3	3	100	9	25
	RS88RO4	4	100	15	40
	RS88RO5	5	100	24	50
	RS88RO6	6	100	34	60
	RS88RO7	7	100	46	60
	RS88RO8	8	100	60	80
	RS88RI0	10	50	94	100
	RS88RI2	12	50	135	120
	RS88RI5	15	50	212	150
	RS88RI8	18	50	305	180
	Hardness 80 °ShA Rough Blue O6 FDA EU				
	RS88RO4	4	100	15	30
	RS88RO5	5	100	24	35
	RS88RO6	6	100	34	40
	RS88RO8	8	100	60	55
	RS88RI0	10	50	85	75
	RS88RI2	12	50	123	85
	RS88RI5	15	50	200	120
TPU with PES reinforcement	Hardness 92 °ShA Smooth Yellow 00				
	RF92LO8	8	100	60	85
	RF92LW6	9,5	50	85	100
	RF92LW8	12,5	50	145	130
	RF92LI5	15	50	212	155
	RF92LI8	18	50	305	185
	Hardness 88 °ShA Rough Green 14				
	RF88RO8	8	100	60	80
	RF88RI0	10	50	94	100
	RF88RI2	12	50	135	120
	RF88RI5	15	50	212	150
	Hardness 80 °ShA Rough Blue O6 FDA EU				
	RF88RO8	8	100	60	55
	RF88RI0	10	50	85	75
	RF88RI2	12	50	123	85
	RF88RI5	15	50	200	120
TPE w/o reinf.	Hardness 55 °ShD Smooth Natural 00				
	RSE55LW6	9,5	100	85	190
	RSE55LW8	12,5	100	150	250

General characteristics:

- Fast and easy splicing.
- Resistance to abrasion.
- Resistance to oils and fats.
- Resistance to a wide range of chemical products.
- High tensile strength.
- Vibration absorption.
- Low-noise operation.
- Easy to clean.
- Easy to store due to special packaging.

Friction coefficient:

- Smooth finish: 0,4 to 0,8 (depending on hardness).
- Rough finish: 0,3.

Maximum recommended speed: 15 m/s.

Recommended operating temperatures:

- -20°C to +50°C (constant).
- -40°C to +80°C (intermittent).

Assembly:

To calculate the final length of the belt, pretension must be considered.

Pretension:

- Non-reinforced belts: maximum 8% (depending on hardness).
- Polyester reinforced belts: <1%.

Belt splicing:

By thermoplastic fusion.

- Welding temperature: 400 °C.
- Cooling time after welding:
 - Up to 8 mm in diameter: 6 min.
 - Diameter from 10 to 15 mm: 15 min.



Splicing tools

Complete tool kit in a sturdy padded PVC case.

Includes:

- Welder with adjustable heat control from 100 to 400° C.
- Standard flat welder spatulas, 30 mm and 40 mm.
- Welding clamp and supporting mechanism.
- Scissors for cutting thermoweldable extruded belts.

LP 9000



PVC = Polyvinyl chloride PES = Polyester (textile fiber) TPE = Thermoplastic polyester TPU = Thermoplastic polyurethane

esbelt® Thermoweldable Belts: Quick and easy to join, with high load capacity and resistance to abrasion, oils, and chemicals.

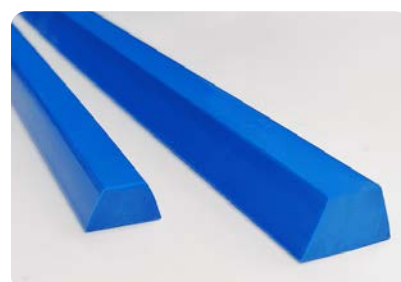
Ridge Top and Pentagonal Belts

Section		Type	Dimensions			Roll length m	Weight g/m	Min. pulley ø mm
			b mm	h mm	c mm			
TPU without reinforcement		Hardness 88 °ShA Green 14						
		PS88LOA	13	8	7	50	150	130
		PS88LOB	17	11	9	50	255	180
		PS88LOC	22	15	10	50	410	230
		Hardness 92 °ShA Yellow 00						
		PS92LOB	17	11	9	50	255	265
PS92LOC	22	15	10	50	410	340		
TPU with PES reinf.		Hardness 88 °ShA Green 14						
		PF88LOA	13	8	7	50	145	130
		PF88LOB	17	11	9	50	245	180
		PF88LOC	22	15	10	50	390	230
TPU with PES reinf.		Hardness 88 °ShA Green 14						
		DF88LOB	17	10	10	50	300	210
		DF88LOC	22	15	10	50	440	265



Trapezoidal Vee Belts

Section	Type	Dimensions		Roll length m	Weight g/m	Min. pulley ø mm	
		b mm	h mm				
TPU without reinforcement		Hardness 88 °ShA Green 14					
		TS88LOZ	10	6	50	60	70
		T88LOA	13	8	50	98	90
		TS88LOB	17	11	50	173	115
		TS88LOC	22	14	50	286	160
		Hardness 92 °ShA Yellow 00					
		TS92LOZ	10	6	50	60	80
		TS92LOA	13	8	50	98	100
		TS92LOB	17	11	50	173	130
		Hardness 80 °ShA Blue 06 FDA EU					
TS80LOZ	10	6	50	53	50		
TPU with PES reinf.		Hardness 88 °ShA Green 14					
		TF88LOA	13	8	50	98	90
		TF88LOB	17	11	50	170	115
		TF88LOC	22	14	50	276	160



■ With top cover coating

Section	Coating	Type	Dimensions		Roll length m	Weight g/m	Min. pulley ø mm	
			b mm	h mm				
TPU without reinforcement		Hardness 88 °ShA Green 14						
		PVC G pattern	TS88GOZ	10	10	50	95	80
			TS88GOA	13	12	50	132	100
			TS88GOB	17	15	50	218	120
			TS88GOC	22	18	50	346	180
TPU without reinforcement		Hardness 88 °ShA Green 14						
		PVC Smooth	TS88COZ	10	9	50	113	80
			TS88COA	13	11	50	154	100
			TS88COB	17	14	50	248	120
			TS88COC	22	17	50	385	180
TPU with PES reinf.		Hardness 88 °ShA Green 14						
		PVC G pattern	TF88GOA	13	12	50	132	100
			TF88GOB	17	15	50	215	120
			TF88GOC	22	18	50	336	180



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