



Lubrizol

**TPU FOR BELTS
AND PROFILES**
EMEA
**PRODUCT
SELECTION
GUIDE**

LUBRIZOL
ENGINEERED
POLYMERS

**ADVANCING MATERIALS.
ELEVATING PERFORMANCE.**

TPU (THERMOPLASTIC POLYURETHANE) FOR BELTS AND PROFILES

Grades	TPU Polyol Type	Hardness (Shore A/D) ISO 868	Key benefits	Tensile Strength (MPa) ISO 527-2/5A/500	Elongation at break ISO 527-2/5A/500	Tear Resistance kN/m ISO 34-1B	Minimum Extrusion Temperature °C	MFI g/10 min. ISO 1133	MFI Conditions	TG (°C)	Main Applications
Estane® 58271 NAT 021	Polyester	86A	Wide processing window, Transparency	42	650	60*	180	15-25	190°C/8.7 Kg	-25	Profiles
Pearlthane™ MAXI 12T85E	Polyester	86A	Low-temperature flexibility, High-melt strength	42	580	108**	185-195	10-25	210°C/3.8 Kg	-45	Drive belts and profiles
Estane® 58206 NAT 033	Polyester	87A	Good Mechanical and chemical properties, High-melt strength	46	600	70*	190	8-22	210°C/3.8 Kg	-40	Drive belts and profiles
Pearlthane™ 12T92E	Polyester	91A	High-melt strength, Hydrolytic stabilized	39	500	112**	195-205	55-90	220°C/3.8 kg	-40	Timing belts
Estane® 58277 NAT 021	Polyester	93A/49D	Wide processing window, chemical and abrasion resistance	47	550	100*	185	10-20	190°C/8.7 Kg	-15	Profiles
Estane® 58887 NAT 055	Polyether	89A	Low-temp. flexibility, Very good hydrolysis and microbial resistance	47	570	65*	185	10-20	210°C/3.8 Kg	-45	Elevator belts and profiles
Estane® 58887 NAT 037	Polyether	89A	Improved adhesion / Low-temp. flex. / Very good hydrolysis & microbial resist.	47	570	65*	185	17-28	210°C/3.8 Kg	-45	Elevator belts
Estane® ETE 90AB3 NAT 01	Polyester	90A	High-melt strength, Food approved	40	500	112*	195-210	70-95	220°C/3.8 Kg	-40	Food belts
Pearlthane™ 11T85E	Polycaprolactone Copolyester	86A	Good Transparency, Good hydrolysis resistance	35	650	90**	185-195	55-90	220°C/3.8 kg	-40	Timing belts and profiles
Pearlthane™ 11T92E	Polycaprolactone Copolyester	93A	Good Transparency, Good hydrolysis resistance	42	560	130**	195-205	50-90	220°C/3.8 kg	-34	Timing belts and profiles
Pearlthane™ 11T98	Polycaprolactone Copolyester	98A/52D	Outstanding transparency, Hardness & processability balance	40	470	175**	180-195	55-80	230°C/2.16 kg	-30	Timing belts and profiles
Pearlthane™ CLEAR 15N80	Polyether Copolymer	82A	Outstanding transparency, Low-temperature flexibility	35	740	80**	180-195	25-45	220°C/3.8 kg	-55	Profiles
Pearlthane™ CLEAR 15N85	Polyether Copolymer	86A	Outstanding transparency, Low-temperature flexibility	35	660	95**	185-200	20-45	210°C/3.8 kg	-50	Profiles
Estane® TS 92AP7 NAT 055	Polycarbonate	93A	High heat, hydrolysis and chemical resistance	60	375	103*	205	15-25	200°C/8.7 Kg	-22	High-heat belts

All products may be available, upon request, in powder form as per below:

Maximum Particle Size of powder in µm (100%)	<106	<250	<355	<500
Grade	S	X	F	L

Bio TPU™ by Lubrizol products complement the offering for belts and profiles, please contact your local representative for more information. Bio-based content as certified in accordance with ASTM D-6866.

LUBRIZOL GLOBAL PRESENCE

Our global presence means we have the application and development laboratories (with technical service ability) already in place, as well as worldwide production capabilities and renowned customer service. We are also a specialty producer of performance coatings and other unique products for apparel. Teaming with Lubrizol simplifies a complex global supply chain.

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