



Lubrizol



**TPU FOR
HOSE AND TUBE
EMEA
PRODUCT
SELECTION
GUIDE**

LUBRIZOL
ENGINEERED
POLYMERS

**ADVANCING MATERIALS.
ELEVATING PERFORMANCE.**

TPU (THERMOPLASTIC POLYURETHANE) FOR HOSE AND TUBE

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	Main Applications
ESTANE® 58213 NAT 022	Polyester	76A	Wide processing window / PVC compatibility / Plasticizer-free	25	700	45*	165-175	20-60	190°C/8.7 kg	Spiral hoses & PVC blends
ESTANE® 58271 NAT 021	Polyester	86A	Wide processing window, Abrasion resistance	42	650	60*	175-185	15-25	190°C/8.7 kg	Spiral hoses
Pearlthane™ MAXI 12T85E	Polyester	86A	Low Tg & high thermal resistance	42	580	-	175-225	10-22	210°C/3.8 kg	Hoses, tubes & coextrusion onto high-temperature substrates
ESTANE® 58206 NAT 033	Polyester	87A	Low Tg, Chemical & abrasion resistance	46	600	70*	185-190	8-22	210°C/3.8 kg	Fuel tubes & spiral hoses
ESTANE® 58300 NAT 036	Polyether	82A	Low-temp. flex. / Wide processing window / Hydrolytic, fungus & UV resistance	32	670	40*	175-185	30-50	190°C/8.7 kg	Fire & spiral hoses
ESTANE® 58315 NAT 055	Polyether	85A	Low-temp flex. / Hydrolytic & fungus resistance / NSF certified	46	570	55*	180-190	10-24	190°C/8.7 kg	Flat & spiral hoses / Fracking / Potable water
ESTANE® 58197 NAT 022	Polyether	85A	Low-temp flex. / Hydrolytic & fungus resistance / NSF certified	42	600	55*	180-190	30-40	210°C/3.8 kg	Fracking / Potable water
ESTANE® 58887 NAT 055	Polyether	89A	Low-temp flex. / Hydrolytic & fungus resistance / NSF certified	47	570	65*	180-190	10-35	210°C/3.8 kg	Sleeves / Potable water / Fracking / Fire / Flat / Spiral hoses
ESTANE® 58212 NAT 025	Polyether	93A/42D	Excellent clarity / Good melt strength / UV stabilized	50	500	95*	180-195	8-13	190°C/8.7 kg	Pneumatic & hydraulic hoses
ESTANE® 58277 NAT 021	Polyester	93A/49D	Chemical & abrasion resistance, High tear resistance	47	550	100*	180-195	10-20	190°C/8.7 kg	Spiral hoses
Pearlthane™ 11T80	Polycaprolactone Copolyester	82A	Chemical & abrasion resistance	40	630	80**	180-220	55-90	220°C/3.8 kg	Coil & pneumatic tubing
Pearlthane™ 11T85E	Polycaprolactone Copolyester	86A	Chemical & abrasion resistance	35	650	90**	175-220	55-90	220°C/3.8 kg	Coil & pneumatic tubing
Pearlthane™ 11T92E	Polycaprolactone Copolyester	93A	Chemical & abrasion resistance	42	560	130**	190-220	55-90	220°C/3.8 kg	Pneumatic tubing
Pearlthane™ 11T98	Polycaprolactone Copolyester	98A/52D	High-burst strength & creep resistance	40	470	175**	170-220	55-80	230°C/2.16 kg	Pneumatic tubing
Pearlthane™ CLEAR 15N80	Copolymer	82A	Clarity / Low-temp. flexibility	35	740	80**	180-225	25-45	210°C/3.8 kg	Spiral hoses
Pearlthane™ CLEAR 15N85	Copolymer	86A	Clarity / Low-temp. flexibility	35	660	95**	185-230	20-45	210°C/3.8 kg	Spiral hoses
ESTANE® ECO 12T80E	Bio TPU™ by Lubrizol	82A	Bio-based***	33	604	84**	190-210	40-90	220°C/3.8 kg	Spiral hoses
ESTANE® ECO 12T90E	Bio TPU™ by Lubrizol	91A	Bio-based***	39	470	122**	190-215	30-70	220°C/3.8 kg	Spiral hoses
ESTANE® ECO 12T95	Bio TPU™ by Lubrizol	95A	Bio-based***	36	415	142**	200-225	40-80	220°C/3.8 kg	Spiral hoses
ESTANE® ECO 12T55D	Bio TPU™ by Lubrizol	55D	Bio-based***	43	360	189**	200-230	65-95	230°C/2.16 kg	Pneumatic & hydraulic tubes

* Nicked / ** Unnicked / *** bio-based content as certified in accordance with ASTM-D6866.
For information on EU and/or FDA food contact compliance, please contact Lubrizol Customer Assistance

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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EU-HT-012021



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