

EMEAI Product Selection Guide

# TPU FOR HOSE AND TUBE

*Lubrizol*

Engineered Polymers

# 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
						Nicked	Unnicked				
<b>ESTANE® 58213 NAT 022</b>	Polyester	76A	Wide processing window / PVC compatibility / Plasticizer-free	25	700	45	-	165	20-60	190°C/8.7 kg	Spiral hoses & PVC blends
<b>ESTANE® 58271 NAT 021</b>	Polyester	86A	Wide processing window, Abrasion resistance	42	650	60	-	170	15-25	190°C/8.7 kg	Spiral hoses
<b>PEARLTHANE™ MAXI 12T85E</b>	Polyester	86A	Low Tg & high thermal resistance	42	580	78	-	195	10-25*	210°C/3.8 kg	Hoses, tubes & coextrusion onto high-temperature substrates
<b>ESTANE® 58206 NAT 033</b>	Polyester	87A	Low Tg, Chemical & abrasion resistance	46	600	70	-	185	8-22	210°C/3.8 kg	Fuel tubes & spiral hoses
<b>ESTANE® 58300 NAT 036</b>	Polyether	82A	Low-temp. flex. / Wide processing window / Hydrolytic, fungus & UV resistance	32	670	40	-	180	30-50	190°C/8.7 kg	Fire & spiral hoses
<b>ESTANE® 58315 NAT 055</b>	Polyether	85A	Low-temp flex. / Hydrolytic & fungus resistance / NSF certified	46	570	55	-	185	10-24	190°C/8.7 kg	Flat & spiral hoses / Fracking / Potable water
<b>ESTANE® 58197 NAT 01</b>	Polyether	85A	Low-temp flex. / Hydrolytic & fungus resistance / NSF certified	42	600	55	-	185	25-40	210°C/3.8 kg	Fracking / Potable water
<b>ESTANE® 58887 NAT 055</b>	Polyether	89A	Low-temp flex. / Hydrolytic & fungus resistance / NSF certified	47	570	65	-	190	10-35*	210°C/3.8 kg	Sleeves / Potable water / Fracking / Fire / Flat / Spiral hoses
<b>ESTANE® 58212 NAT 025</b>	Polyether	93A/42D	Excellent clarity / Good melt strength / UV stabilized	50	500	95	-	195	6-17*	190°C/8.7 kg	Pneumatic & hydraulic hoses
<b>ESTANE® 58277 NAT 021</b>	Polyester	93A/49D	Chemical & abrasion resistance, High tear resistance	47	550	100	-	185	10-20	190°C/8.7 kg	Spiral hoses
<b>PEARLTHANE™ 11T80</b>	Polycaprolactone	82A	Chemical & abrasion resistance	40	630	-	80	185	55-90	220°C/3.8 kg	Coil & pneumatic tubing
<b>PEARLTHANE™ 11T85E</b>	Polycaprolactone	86A	Chemical & abrasion resistance	35	650	-	90	190	55-90	220°C/3.8 kg	Coil & pneumatic tubing
<b>PEARLTHANE™ 11T92E</b>	Polycaprolactone	93A	Chemical & abrasion resistance	42	560	-	130	200	55-90	220°C/3.8 kg	Pneumatic tubing
<b>PEARLTHANE™ 11T98</b>	Polycaprolactone	98A/52D	High-burst strength & creep resistance	40	470	-	175	210	55-80	230°C/2.16 kg	Pneumatic tubing
<b>PEARLTHANE™ CLEAR 15N80</b>	Copolymer	82A	Clarity / Low-temperature flexibility	35	740	-	80	180	25-45	210°C/3.8 kg	Spiral hoses
<b>PEARLTHANE™ CLEAR 15N85</b>	Copolymer	86A	Clarity / Low-temperature flexibility	35	660	-	95	190	20-45	210°C/3.8 kg	Spiral hoses
<b>ESTANE® ECO 12T80E</b>	Bio TPU by Lubrizol	82A	Bio-based**	33	604	-	84	190	40-90	220°C/3.8 kg	Spiral hoses
<b>ESTANE® ECO 12T90E</b>	Bio TPU by Lubrizol	91A	Bio-based**	39	470	-	122	200	30-70	220°C/3.8 kg	Spiral hoses
<b>ESTANE® ECO 12T95</b>	Bio TPU by Lubrizol	95A	Bio-based**	36	415	-	142	205	40-80	220°C/3.8 kg	Spiral hoses
<b>ESTANE® ECO 12T55D</b>	Bio TPU by Lubrizol	55D	Bio-based**	43	360	-	189	210	20-70	230°C/2.16 kg	Pneumatic & hydraulic tubes

\* Other MFI ranges available

\*\* 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

Biomass balance (ESTANE RNW TPU) products complement this offering, please contact your local representative for more information.



## 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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