

EMEAI Product Selection Guide



**TPU FOR
MELT COATING**

Lubrizol

Engineered Polymers

TPU (THERMOPLASTIC POLYURETHANE) FOR MELT COATING

Grades	TPU Polyol type	Hardness (Shore A/D) ISO 868	Key benefits	Glass Transition Temperature (°C)	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				
ESTANE® 54660 NAT 021	Polyester	76A	High coefficient of friction	-31	23	840	40	-	170-180	45-65	190°C/8.7 kg	Printing blankets & non-food belts
PEARLCOAT™ 125K	Polyester	85A	Good chemical resistance	-27	30	550	-	71	150-160	65-95	190°C/10 kg	Food belts
ESTANE® 54610 NAT 021	Polyester	86A	Good chemical resistance	-29	37	625	70	-	150-160	45-65	190°C/8.7 kg	Food belts
ESTANE® SPMC 85AM1 NAT 050	Polyester	87A	High-heat resistance	-45	41	585	59	-	200-210	15-30	210°C/3.8 kg	Epoxy & heat resistant CIPP Liners
PEARLCOAT™ 127K	Polyester	92A	Good chemical resistance	-26	30	430	-	95	160-170	65-95	190°C/10 kg	Food belts
ESTANE® 54600 NAT 021	Polyester	94A/45D	Good chemical resistance	-22	40	550	95	-	160-170	45-65	190°C/8.7 kg	Textile printing blankets
PEARLCOAT™ 161K	Polyether	76A	Soft	-44	25	650	-	70	150-185	35-55	190°C/10 kg	Food belts & life jackets
PEARLCOAT™ 162K	Polyether	82A	Excellent hydrolysis resistance & HF weldability	-42	30	550	-	74	160-170	50-80	190°C/10 kg	Food belts
ESTANE® 54630 NAT 023	Polyether	82A	Excellent hydrolysis resistance	-52	30	700	50	-	150-160	45-65	190°C/8.7 kg	Life jackets
ESTANE® 54640 NAT 031C	Polyether	87A	Excellent hydrolysis & heat resistance	-49	40	650	56	-	165-175	50-70	210°C/3.8 kg	Food belts
PEARLCOAT™ 165K	Polyether	91A	Excellent hydrolysis resistance / HF weldability / Oil resistance	-43	30	450	-	100	150-160	55-75	190°C/10 kg	Food belts
ESTANE® ALR MC-93A-VE	Polyether	87A	Excellent UV, microbial & weather resistance, colour stability	-47	37	500	65	87	170-180	20-40	175°C/8.7 kg	Marine safety devices, textile coating

For information on EU and/or FDA food contact compliance, please contact Lubrizol Customer Assistance

On request, all products may be available in powder form.

Bio TPU by Lubrizol products complement the offering for film & sheet, please contact your local representative for more information. Bio-based content as certified in accordance with ASTM D6866.



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.

AMERICAS

Lubrizol Advanced Materials, Inc.
9911 Brecksville Road
Cleveland, Ohio 44141-3201
USA Phone: +1 216 447 5000

ASIA

Lubrizol Specialty Chemicals
Manufacturing (Shanghai) Co., Ltd.
6F, No.3, Building C,
Lane 227 Dongyu Road
Pudong New District, Shanghai,
PRC 200126
Phone: +86 21 3866 0366

EUROPE, MIDDLE EAST, INDIA & AFRICA

Lubrizol Advanced Materials
Spain S.L. Gran Vial, no. 17
08160 Montmeló (Barcelona)
Spain
Phone: +34 93 579 9522



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go.lubrizol.com/EP