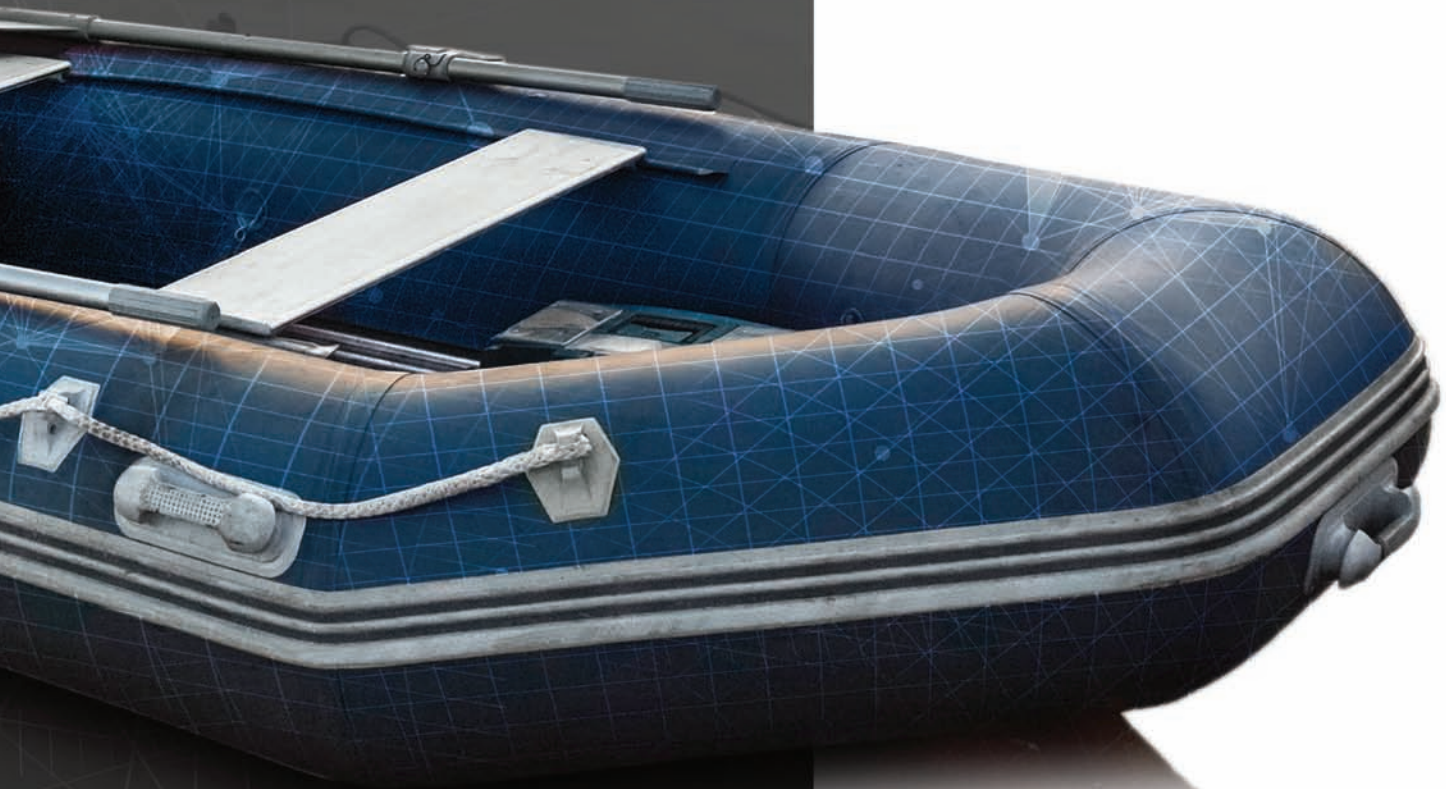


Lubrizol

**TPU FOR
MELT COATING
EMEA
PRODUCT
SELECTION
GUIDE**



**LUBRIZOL
ENGINEERED
POLYMERS**

**ADVANCING MATERIALS.
ELEVATING PERFORMANCE.**

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
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	35-65	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
Pearlcoat™ 168K	Polyether	82A	Excellent hydrolysis resistance	-49	25	650	75**	150-185	35-60	190°C/10 kg	Food belts
Estane® 54630 NAT 023	Polyether	82A	Excellent hydrolysis resistance, WRAS certified***	-52	30	700	50*	150-160	45-65	190°C/8.7 kg	Life jackets
Estane® 54640 NAT 031	Polyether	87A	Excellent hydrolysis & heat resistance, WRAS certified***	-49	40	650	56*	165-175	40-55	210°C/3.8 kg	Food belts
Pearlcoat™ 165K	Polyether	91A	Excellent hydrolysis resistance / HF weldability / Oil resistance	-43	30	450	100**	150-160	50-70	190°C/10 kg	Food belts
Estane® ALR MC-93 AV	Aliphatic Polyether	87A	Excellent hydrolysis resistance / UV & weather resistance / Colour Stability	-47	27	530	60*	170-180	1-20	175°C/2.16 kg	UV / colour-stable inflatables, marine safety devices

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

* Nicked / ** Unnicked / *** WRAS (Water Regulations Advisory Scheme) certified materials with contact to drinking water based on the standard BS6920. 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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