Lubrizol

Hose, Tube & Profile Solutions



OVERVIEW

Lubrizol is more than just a leading engineered polymer solutions supplier and manufacturer; Lubrizol is a proven and trusted partner to the hose, tube and profile markets. With over 55 years of experience and a worldwide network that includes formulation design, manufacturing, R&D, applications/ technical service support, and cutting-edge technologies, we help our customers make products more amazing.

In addition, our unique manufacturing process and wide product portfolio provides many unique advantages for the hose, tube and profile markets including:

- Excellent quality/product consistency
- Wide processing window
- High clarity and transparency
- Customized grades by form of stabilization and by viscosity

INNOVATIVE THERMOPLASTIC POLYURETHANE (TPU) SOLUTIONS

Lubrizol's portfolio of TPU solutions provides superior properties and benefits for hose, tube and profile applications including:

- Long term flexibility
- Abrasion/cut/tear resistance
- Kink resistance

ADVANCING MATERIALS.

ELEVATING PERFORMANCE.

- Puncture resistance
- High burst pressure resistance
- Extended hydrolytic stability

Our polyester-based grades exhibit excellent oil, fuel, and solvent resistance, high temperature performance as well as good UV and hydrolytic stability.

Our polyether-based grades exhibit excellent low temperature properties, hydrolysis resistance and fungus resistance.

LUBRIZOL ENGINEERED POLYMERS

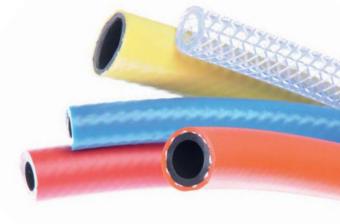
HOSE, TUBE & PROFILE GRADES

Technology Platforms	Products	Shore Hardness	Features & Benefits
Polyester	ESTANE [®] 58070	72A	• 72A to 60D
	ESTANE® 58213	75A	Excellent chemical resistance
	ESTANE [®] 5708	85A	Outstanding resiliency
	ESTANE [®] 58206	85A	
	ESTANE® 58271	85A	Low temperature flexibility
	ESTANE® 58226	92A	Compatible with PVC
	ESTANE® 58277	93A/45D	 FDA grades available
	ESTANE® ETE 60DS3	60D	
	Pearlthane [™] MAXI 12T85E	86A	
Polyether	ESTANE [®] 58300	82A	82A to 46D Low temperature flexibility
	ESTANE [®] 58284	85A	
	ESTANE [®] 58315	85A	
	ESTANE [®] 58863	85A	 Excellent hydrolysis and fungus resistance
	ESTANE [®] 58887	87A	Good mechanical properties
	ESTANE [®] 58810	90A	
	ESTANE® 58219	92A/46D	
Polycaprolactone copolyester	Pearlthane [™] 11T80	82A	 Both excellent abrasion, grease & oil resistance
	Pearlthane [™] 11T85E	86A	 Excellent modulus & creep values
	Pearlthane [™] 11T92E	93A	 Hydrolysis resistance
	Pearlthane [™] 11T98 (for pneumatic tubing, crystal clear)	98A	High burst strength
Copolymer	Pearlthane [™] CLEAR 15N80	82A	• Clarity
	Pearlthane [™] CLEAR 15N85	85A	Low temperature flexibility
Stat-Rite® Dissipative TPU	Stat-Rite [®] E-1140	82A	 Surface resistance 10⁹ & 10¹¹ ohms
	Stat-Rite® S-1100	91A	 FDA compliant, ESD masterbatch for TPU
Bio TPU™ by Lubrizol*	ESTANE [®] ECO 12T80E	82A	 *Made with bio-based materials (plant-based, 29%-67%) determined by ASTM D6866 Same performance benefits as petroleum based TPU
	ESTANE [®] ECO 12T85	85A	
	ESTANE [®] ECO 12T90E	91A	
	ESTANE® ECO 12T95	95A	
	ESTANE [®] ECO 12T55D	55D	

APPLICATIONS FOR TPU IN HOSE, TUBE & PROFILE

- Multilayer or Single Layer
- Lay flat hoses
- Spiral Hoses
- Garden Hoses
- Braided Hoses
- Packaging Equipment
- Air Powered Tools

- Robotics
- Dental Equipment
- Automated Equipment
- Pneumatic Hoists
- Conveyance of: chemical liquids, abrasive substances, food & beverages, gasoline & fuels



LUBRIZOL ENGINEERED POLYMERS

ADVANCING MATERIALS. ELEVATING PERFORMANCE.



