

## Lubrizol ESTANE® 58212 Ether Based Thermoplastic Polyurethane (European Grade)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

### Material Notes:

Description: Estane® thermoplastic polyurethanes (TPUs) include elastomeric materials that bridge the gap between flexible rubber and rigid plastics. These materials offer toughness and durability in a flexible thermoplastic elastomer system that is easy to process in a wide range of equipment. The Estane® TPU portfolio of products offers high performance polyester - and polyether - based resins and compounds in a broad range of hardnesses to meet a variety of application needs. Benefits of Estane® TPU: Outstanding Abrasion and Wear Resistance Excellent Low Temperature Flexibility Superior Toughness and Durability Ease of Processing and Manufacturing Flexibility Colorability and Paintability with no adhesion promoter Applications: Film & Sheet Fabric coating & melt coating Wire & Cable Hose, Tube & Profile Custom molding Custom compounding Automotive interior/chassis and exterior painted trim Specific Notes for this Material: Excellent clarity, good melt strength Information provided by Noveon, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-ESTANE-58212-Ether-Based-Thermoplastic-Polyurethane-European-Grade.php](http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58212-Ether-Based-Thermoplastic-Polyurethane-European-Grade.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ISO 868
Hardness, Shore D	46	46	ISO 868
Tensile Strength, Ultimate	36.0 MPa	5220 psi	ISO 37
Elongation at Break	530 %	530 %	ISO 37
Tensile Modulus	0.0560 GPa	8.12 ksi	ISO 527
50% Modulus	0.0100 GPa	1.45 ksi	ISO 37
100% Modulus	0.0114 GPa	1.65 ksi	ISO 37
300% Modulus	0.0184 GPa	2.67 ksi	ISO 37
Rebound	25 %	25 %	ISO 4662
Tear Strength	95.0 kN/m	542 pli	with incision; ISO 34B
Abrasion	40	40	mm <sup>3</sup> ; ISO 4649
Compression Set	30 %	30 %	70 hrs./22°C; ISO 815
	70 %	70 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
Vicat Softening Point	80.0 °C	176 °F	A50; ISO 306
Brittleness Temperature	-70.0 °C	-94.0 °F	DIN 53546

## Contact Songhan Plastic Technology Co.,Ltd.

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