

## Lubrizol ESTANE® 58214 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 ResistanceExcellent Low Temperature FlexibilitySuperior Toughness and DurabilityEase of Processing and Manufacturing FlexibilityColorability and Paintability with no adhesion promoter**Applications:** Film & SheetFabric coating & melt coatingWire & CableHose, Tube & ProfileCustom moldingCustom compoundingAutomotive interior/chassis and exterior painted trimInformation provided by Noveon, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-ESTANE-58214-Ether-Based-Thermoplastic-Polyurethane-European-Grade.php](http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58214-Ether-Based-Thermoplastic-Polyurethane-European-Grade.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	DIN 53479

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	DIN 53505
Tensile Strength, Ultimate	35.0 MPa	5080 psi	DIN 53504
Elongation at Break	650 %	650 %	DIN 53504
Tensile Modulus	0.0200 GPa	2.90 ksi	ISO 527
50% Modulus	0.00500 GPa	0.725 ksi	DIN 53504
100% Modulus	0.00600 GPa	0.870 ksi	DIN 53504
300% Modulus	0.00900 GPa	1.31 ksi	DIN 53504
Rebound	40 %	40 %	ISO 4662
Tear Strength	55.0 kN/m	314 pli	with incision; ISO 34B
Abrasion	45	45	mm<sup>3</sup>; DIN 53516
Compression Set	27 %	27 %	70 hrs./22°C; DIN 53517
	70 %	70 %	24 hrs./70°C; DIN 53517

Thermal Properties	Metric	English	Comments
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Vicat Softening Point Thermal Properties	67.0 °C Metric	153 °F English	A50° DIN 53460 Comments
Brittleness Temperature	-70.0 °C	-94.0 °F	DIN 53546

## Contact Songhan Plastic Technology Co.,Ltd.

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