

## Lubrizol ESTANE® T5090 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 trim**Specific Notes for this Material:** Low gloss Information provided by Noveon, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-ESTANE-T5090-Ether-Based-Thermoplastic-Polyurethane-European-Grade.php](http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-T5090-Ether-Based-Thermoplastic-Polyurethane-European-Grade.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	DIN 53479

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	DIN 53505
Tensile Strength, Ultimate	30.0 MPa	4350 psi	DIN 53504
Elongation at Break	650 %	650 %	DIN 53504
50% Modulus	0.00500 GPa	0.725 ksi	DIN 53504
100% Modulus	0.00580 GPa	0.841 ksi	DIN 53504
300% Modulus	0.00900 GPa	1.31 ksi	DIN 53504
Tear Strength	55.0 kN/m	314 pli	DIN 53515
Abrasion	80	80	mm<sup>3</sup>; DIN 53516

## Contact Songhan Plastic Technology Co.,Ltd.

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