

Lubrizol ESTANE® ETE60DT3 Ester 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 extrusion, processability, low temperature flexibility, good clarity, substrate for overmolding. Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-ETE60DT3-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|-----------|
| Specific Gravity | 1.17 g/cc | 1.17 g/cc | DIN 53479 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|-----------|-----------------------------|
| Hardness, Shore D | 65 | 65 | DIN 53505 |
| Tensile Strength, Ultimate | 36.0 MPa | 5220 psi | DIN 53504 |
| Elongation at Break | 435 % | 435 % | DIN 53504 |
| 50% Modulus | 0.0175 GPa | 2.54 ksi | DIN 53504 |
| 100% Modulus | 0.0199 GPa | 2.89 ksi | DIN 53504 |
| 300% Modulus | 0.0271 GPa | 3.93 ksi | DIN 53504 |
| Flexural Stiffness | 186.00 MPa | 26977 psi | ASTM D747 |
| Tear Strength | 160 kN/m | 913 pli | DIN 53515 |
| Abrasion | 86 | 86 | mm ³ ; DIN 53516 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------|---------|----------------|
| Vicat Softening Point | 85.0 °C | 185 °F | A50; DIN 53460 |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

| E-Modulus Descriptive Properties | 173 mm/min Value | Comments |
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