

Lubrizol ESTANE® ETE55DT3 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-ETE55DT3-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|-----------|
| Specific Gravity | 1.16 g/cc | 1.16 g/cc | DIN 53479 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|-----------|-----------------------------|
| Hardness, Shore D | 55 | 55 | DIN 53505 |
| Tensile Strength, Ultimate | 33.0 MPa | 4790 psi | DIN 53504 |
| Elongation at Break | 520 % | 520 % | DIN 53504 |
| 50% Modulus | 0.0113 GPa | 1.64 ksi | DIN 53504 |
| 100% Modulus | 0.0128 GPa | 1.86 ksi | DIN 53504 |
| 300% Modulus | 0.0202 GPa | 2.93 ksi | DIN 53504 |
| Flexural Stiffness | 98.002 MPa | 14214 psi | ASTM D747 |
| Tear Strength | 110 kN/m | 628 pli | DIN 53515 |
| Abrasion | 75 | 75 | mm ³ ; DIN 53516 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------|---------|----------------|
| Vicat Softening Point | 93.0 °C | 199 °F | A50; DIN 53460 |

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

| E-Modulus Descriptive Properties | 87 mm/min Value | Comments |
|-------------------------------------|--------------------|----------|
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