

Lubrizol Estane® GP 52 DT Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Type: Estane® GP 52DT is an aromatic polyester-based thermoplastic polyurethane (TPU).Features: Translucent spherical pellets.Uses: Injection molding parts, animal identification tagsAvailable in EuropeInformation Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-GP-52-DT-Thermoplastic-Polyurethane.php

| Physical Properties | Metric | English | Comments |
|--------------------------|--|--|----------|
| Specific Gravity | 1.15 g/cc | 1.15 g/cc | ISO 2781 |
| Maximum Moisture Content | 0.050 | 0.050 | |
| Melt Flow | 20 - 40 g/10 min @Load 8.70 kg, Temperature 205 °C | 20 - 40 g/10 min @Load 19.2 lb, Temperature 401 °F | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--|---|----------------------------|
| Hardness, Shore D | 53 | 53 | ISO 868 |
| Tensile Strength, Ultimate | 52.0 MPa | 7540 psi | ISO 527 |
| Elongation at Break | 525 % | 525 % | |
| Modulus of Elasticity | 0.0780 GPa | 11.3 ksi | ISO 527 |
| 50% Modulus | 0.0120 GPa | 1.74 ksi | |
| 100% Modulus | 0.0140 GPa | 2.03 ksi | |
| 300% Modulus | 0.0540 GPa | 7.83 ksi | |
| Rebound | 27 % | 27 % | ISO 4662 |
| Tear Strength | 105 kN/m | 599 pli | Nicked; ISO 34-1B |
| | 132 kN/m | 753 pli | Unnicked; ISO 34-1B |
| Abrasion | 50 | 50 | mm ³ ; ISO 4649 |
| Compression Set | 25 % @Temperature 22.0 °C, Time 252000 sec | 25 % @Temperature 71.6 °F, Time 70.0 hour | ISO 815 |
| | 38 % @Temperature 70.0 °C, Time 86400 sec | 38 % @Temperature 158 °F, Time 24.0 hour | ISO 815 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------|---------|--------------|
| Vicat Softening Point | 94.0 °C | 201 °F | A50; ISO 306 |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------------|------------------|-----------|
| Feed Temperature | 40.0 °C | 104 °F | Injection |
| Nozzle Temperature | 205 - 215 °C | 401 - 419 °F | Injection |
| Zone 1 | 195 - 205 °C | 383 - 401 °F | Injection |
| Zone 2 | 200 - 210 °C | 392 - 410 °F | Injection |
| Zone 3 | 205 - 215 °C | 401 - 419 °F | Injection |
| Zone 4 | 210 - 220 °C | 410 - 428 °F | Injection |
| Drying Temperature | 100 °C | 212 °F | |
| Dry Time | 2.00 - 3.00 hour | 2.00 - 3.00 hour | |
| Dew Point | -30.0 °C | -22.0 °F | |

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