

Lubrizol Estane® R175A Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Type: Estane® R175A is a Shore 75A, plasticized grade thermoplastic polyurethane (TPU). Uses: Injection Molding. Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-R175A-Thermoplastic-Polyurethane.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|-----------|
| Specific Gravity | 1.13 g/cc | 1.13 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.010 cm/cm | 0.010 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---|---|--------------------------------|
| Hardness, Shore A | 82 | 82 | ASTM D2240 |
| Tensile Strength, Ultimate | 29.4 MPa | 4270 psi | ASTM D412 |
| Tensile Strength, Yield | 4.61 MPa | 668 psi | at 100% elongation; ASTM D412 |
| | 8.83 MPa | 1280 psi | at 300% elongation; ASTM D412 |
| Elongation at Break | 800 % | 800 % | ASTM D412 |
| Tear Strength | 78.5 kN/m | 448 pli | Die C; ASTM D624 |
| Abrasion | 35 | 35 | mm ³ loss; ISO 4649 |
| Compression Set | 15 % | 15 % | ASTM D395 |
| | @Temperature 23.0 °C, Time 79200 sec | @Temperature 73.4 °F, Time 22.0 hour | |
| | 45 % | 45 % | ASTM D395 |
| | @Temperature 70.0 °C, Time 79200 sec | @Temperature 158 °F, Time 22.0 hour | |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------|---------|------------|
| Vicat Softening Point | 78.0 °C | 172 °F | ASTM D1525 |

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