

Teknor Apex Monprene® MP-1766-R1 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Uses: Closures; Consumer Applications; Gaskets; Handles; Kitchenware; Medical/Healthcare Applications; Packaging; Safety Equipment; Sporting Goods; Toothbrush Handles; Tubing; Writing Instruments Forms: Pellets Processing Method: Extrusion; Injection Molding

Injection Notes: Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C); Injection Rate:

Fast Extrusion Notes: Screw Speed: 30 to 100 rpm Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Monprene-MP-1766-R1-Thermoplastic-Elastomer.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---|---|------------|
| Specific Gravity | 0.890 g/cc | 0.890 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.013 cm/cm | 0.013 in/in | ASTM D955 |
| Linear Mold Shrinkage, Transverse | 0.011 cm/cm | 0.011 in/in | ASTM D955 |
| Melt Flow | 2.00 g/10 min @Load 2.16 kg, Temperature 190 °C | 2.00 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---------------------------|--------------------------|------------|
| Hardness, Shore A | 70 | 70 | ASTM D2240 |
| Tensile Strength at Break | 11.0 MPa | 1600 psi | ASTM D412 |
| Tensile Stress | 3.45 MPa @Strain 300 % | 500 psi @Strain 300 % | ASTM D412 |
| Elongation at Break | 700 % | 700 % | ASTM D412 |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 182 - 232 °C | 360 - 450 °F | |
| Middle Barrel Temperature | 188 - 238 °C | 370 - 460 °F | |
| Front Barrel Temperature | 193 - 243 °C | 380 - 470 °F | |
| Nozzle Temperature | 199 - 249 °C | 390 - 480 °F | |
| Zone 1 | 182 - 232 °C | 360 - 450 °F | |
| Zone 2 | 188 - 238 °C | 370 - 460 °F | |
| Zone 3 | 193 - 243 °C | 380 - 470 °F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|-------------------|-----------------|------------------------|
| Die Temperature | 199 - 249 Â°C | 390 - 480 Â°F | |
| Melt Temperature | 199 - 249 Â°C | 390 - 480 Â°F | Processing Temperature |
| Mold Temperature | 35.0 - 48.9 Â°C | 95.0 - 120 Â°F | |
| Injection Pressure | 1.38 - 5.52 MPa | 200 - 800 psi | |
| Back Pressure | 0.172 - 0.689 MPa | 25.0 - 100 psi | |
| Cushion | 0.381 - 2.54 cm | 0.150 - 1.00 in | |
| Screw Speed | 50 - 100 rpm | 50 - 100 rpm | |

| Descriptive Properties | Value | Comments |
|------------------------|-------------------|----------|
| Appearance | Clear/Transparent | |

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