

Teknor Apex Monprene[®] MP-1791R4 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-1791R4-Thermoplastic-Elastomer.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|------------|
| Specific Gravity | 1.02 g/cc | 1.02 g/cc | ASTM D792 |
| Melt Flow | 23.0 g/10 min | 23.0 g/10 min | ASTM D1238 |
| | @Load 2.16 kg, Temperature 190 [°] C | @Load 4.76 lb, Temperature 374 [°] F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|---|------------------------|
| Hardness, Shore A | 60 | 60 | 15 seconds; ASTM D2240 |
| | 65 | 65 | ASTM D2240 |
| Tensile Strength at Break | 4.83 MPa | 700 psi | ASTM D412 |
| Tensile Stress | 2.76 MPa | 400 psi | ASTM D412 |
| | @Strain 300 % | @Strain 300 % | |
| Elongation at Break | 600 % | 600 % | ASTM D412 |
| | 35 % | 35 % | |
| Compression Set | @Temperature 22.8 [°] C, Time 79200 sec | @Temperature 73.0 [°] F, Time 22.0 hour | ASTM D395 |
| | 38 % | 38 % | |
| | @Temperature 22.8 [°] C, Time 259000 sec | @Temperature 73.0 [°] F, Time 72.0 hour | ASTM D395 |
| | 78 % | 78 % | |
| | @Temperature 70.0 [°] C, Time 79200 sec | @Temperature 158 [°] F, Time 22.0 hour | ASTM D395 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Processing Properties | Metric | English | Comments |
|---------------------------|-------------------|-----------------|------------------------|
| Middle Barrel Temperature | 188 - 238 Â°C | 370 - 460 Â°F | |
| Front Barrel Temperature | 193 - 243 Â°C | 380 - 470 Â°F | |
| Nozzle Temperature | 199 - 249 Â°C | 390 - 480 Â°F | |
| Zone 1 | 182 - 232 Â°C | 360 - 450 Â°F | |
| Zone 2 | 188 - 238 Â°C | 370 - 460 Â°F | |
| Zone 3 | 193 - 243 Â°C | 380 - 470 Â°F | |
| Zone 5 | 199 - 249 Â°C | 390 - 480 Â°F | |
| 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 | Opaque | |

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