

Teknor Apex Monprene® MP-1782 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-1782-Thermoplastic-Elastomer.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------------|--------------------------------------|------------|
| Specific Gravity | 0.892 g/cc | 0.892 g/cc | ASTM D792 |
| Melt Flow | 15.0 g/10 min | 15.0 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 | 80 | 80 | ASTM D2240 |
| Tensile Strength at Break | 12.4 MPa | 1800 psi | ASTM D412 |
| Tensile Stress | 6.89 MPa | 1000 psi | ASTM D412 |
| | @Strain 300 % | @Strain 300 % | |
| Elongation at Break | 500 % | 500 % | ASTM D412 |
| Compression Set | 18 % | 18 % | ASTM D395 |
| | @Temperature 22.8 °C, Time 252000 sec | @Temperature 73.0 °F, Time 70.0 hour | |

| 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 Processing Properties | 193 - 243 Â°C Metric | 380 - 470 Â°F English | Comments |
|---------------------------------|-------------------------|--------------------------|------------------------|
| 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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