

## Teknor Apex Monprene<sup>®</sup> MP-1580L1-UV 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<sup>°</sup>F (65<sup>°</sup>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-1580L1-UV-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_Teknor-Apex-Monprene-MP-1580L1-UV-Thermoplastic-Elastomer.php)

| Physical Properties | Metric  | English   | Comments   |
|---------------------|---|---|------------|
| Specific Gravity    | 0.880 g/cc  | 0.880 g/cc  | ASTM D792  |
| Melt Flow           | 1.00 g/10 min<br>@Load 5.00 kg,<br>Temperature 200 <sup>°</sup> C | 1.00 g/10 min<br>@Load 11.0 lb,<br>Temperature 392 <sup>°</sup> F | ASTM D1238 |

| Mechanical Properties     | Metric   | English  | Comments   |
|---------------------------|--|--|------------|
| Hardness, Shore A         | 37   | 37   | ASTM D2240 |
| Tensile Strength at Break | 8.27 MPa   | 1200 psi   | ASTM D412  |
| Tensile Stress            | 2.07 MPa<br>@Strain 300 %                                      | 300 psi<br>@Strain 300 %                                       | ASTM D412  |
| Elongation at Break       | 700 %  | 700 %  | ASTM D412  |
| Compression Set           | 20 %<br>@Temperature 22.8<br><sup>°</sup> C,<br>Time 79200 sec | 20 %<br>@Temperature 73.0<br><sup>°</sup> F,<br>Time 22.0 hour | ASTM D395  |
|                           | 60 %<br>@Temperature 70.0<br><sup>°</sup> C,<br>Time 79200 sec | 60 %<br>@Temperature 158 <sup>°</sup> F,<br>Time 22.0 hour     | ASTM D395  |

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

| Processing Properties | Metric            | English         | Comments               |
|-----------------------|-------------------|-----------------|------------------------|
| Zone 1                | 182 - 232 Å°C     | 350 - 450 Å°F   |                        |
| Zone 2                | 188 - 238 Å°C     | 370 - 460 Å°F   |                        |
| Zone 3                | 193 - 243 Å°C     | 380 - 470 Å°F   |                        |
| Zone 5                | 199 - 249 Å°C     | 390 - 480 Å°F   |                        |
| Die Temperature       | 199 - 249 Å°C     | 390 - 480 Å°F   |                        |
| Melt Temperature      | 199 - 249 Å°C     | 390 - 480 Å°F   | Processing Temperature |
| Mold Temperature      | 35.0 - 48.9 Å°C   | 95.0 - 120 Å°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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