

## Teknor Apex Monprene® MP-2850M-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°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-2850M-UV-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_Teknor-Apex-Monprene-MP-2850M-UV-Thermoplastic-Elastomer.php)

| Physical Properties               | Metric  | English   | Comments   |
|-----------------------------------|---|---|------------|
| Specific Gravity                  | 0.890 g/cc  | 0.890 g/cc  | ASTM D792  |
| Linear Mold Shrinkage             | 0.015 cm/cm   | 0.015 in/in   | ASTM D955  |
| Linear Mold Shrinkage, Transverse | 0.018 cm/cm   | 0.018 in/in   | ASTM D955  |
| Melt Flow                         | 20.0 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 20.0 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ASTM D1238 |

| Mechanical Properties     | Metric  | English   | Comments   |
|---------------------------|---|---|------------|
| Hardness, Shore A         | 50  | 50  | ASTM D2240 |
| Tensile Strength at Break | 8.96 MPa  | 1300 psi  | ASTM D412  |
| Tensile Stress            | 2.76 MPa<br>@Strain 300 %                       | 400 psi<br>@Strain 300 %                        | ASTM D412  |
| Elongation at Break       | 700 %   | 700 %   | ASTM D412  |
| Compression Set           | 20 %<br>@Temperature 22.8 °C,<br>Time 79200 sec | 20 %<br>@Temperature 73.0 °F,<br>Time 22.0 hour | ASTM D395B |

| 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 |          |

| Processing Properties | Metric            | English         | Comments               |
|-----------------------|-------------------|-----------------|------------------------|
| Zone 2                | 183 - 238 °C      | 370 - 460 °F    |                        |
| Zone 3                | 193 - 243 °C      | 380 - 470 °F    |                        |
| Zone 5                | 199 - 249 °C      | 390 - 480 °F    |                        |
| Die Temperature       | 199 - 249 °C      | 390 - 480 °F    |                        |
| Melt Temperature      | 199 - 249 °C      | 390 - 480 °F    | Processing Temperature |
| Mold Temperature      | 35.0 - 48.9 °C    | 95.0 - 120 °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 |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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