

## Teknor Apex Monprene® MP-2740UV 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-2740UV-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_Teknor-Apex-Monprene-MP-2740UV-Thermoplastic-Elastomer.php)

| Physical Properties | Metric                                                | English                                               | Comments   |
|---------------------|-------------------------------------------------------|-------------------------------------------------------|------------|
| Specific Gravity    | 1.22 g/cc                                             | 1.22 g/cc                                             | ASTM D792  |
| Melt Flow           | 1.50 g/10 min<br>@Load 5.00 kg,<br>Temperature 200 °C | 1.50 g/10 min<br>@Load 11.0 lb,<br>Temperature 392 °F | ASTM D1238 |

| Mechanical Properties     | Metric                                          | English                                         | Comments   |
|---------------------------|-------------------------------------------------|-------------------------------------------------|------------|
| Hardness, Shore A         | 42                                              | 42                                              | ASTM D2240 |
| Tensile Strength at Break | 4.83 MPa                                        | 700 psi                                         | ASTM D412  |
| Tensile Stress            | 1.38 MPa<br>@Strain 300 %                       | 200 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 |          |
| Zone 2                    | 188 - 238 °C | 370 - 460 °F |          |

| Zone 3<br>Processing Properties | 193 - 243 Â°C<br>Metric | 380 - 470 Â°F<br>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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