

## Teknor Apex Monprene® MP-1473F 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-1473F-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_Teknor-Apex-Monprene-MP-1473F-Thermoplastic-Elastomer.php)

| Physical Properties | Metric                                                | English                                               | Comments   |
|---------------------|-------------------------------------------------------|-------------------------------------------------------|------------|
| Specific Gravity    | 0.890 g/cc                                            | 0.890 g/cc                                            | ASTM D792  |
| Melt Flow           | 4.00 g/10 min<br>@Load 5.00 kg,<br>Temperature 200 °C | 4.00 g/10 min<br>@Load 11.0 lb,<br>Temperature 392 °F | ASTM D1238 |

| Mechanical Properties     | Metric   | English  | Comments   |
|---------------------------|----------|----------|------------|
| Hardness, Shore A         | 75       | 75       | ASTM D2240 |
| Tensile Strength at Break | 12.4 MPa | 1800 psi | ASTM D412  |
| Elongation at Break       | 650 %    | 650 %    | ASTM D412  |

| 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                    | 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 |                        |

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