

## Teknor Apex Monprene® MP-1277B 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-1277B-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_Teknor-Apex-Monprene-MP-1277B-Thermoplastic-Elastomer.php)

| Physical Properties | Metric                                                | English                                               | Comments   |
|---------------------|-------------------------------------------------------|-------------------------------------------------------|------------|
| Specific Gravity    | 0.900 g/cc                                            | 0.900 g/cc                                            | ASTM D792  |
| 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         | 62                        | 62                       | 1 second; ASTM D2240 |
| Tensile Strength at Break | 5.17 MPa                  | 750 psi                  | ASTM D412            |
| Tensile Stress            | 3.62 MPa<br>@Strain 300 % | 525 psi<br>@Strain 300 % | 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 |          |

| Processing Properties | Metric            | English         | Comments               |
|-----------------------|-------------------|-----------------|------------------------|
|                       | 249 Â°C           | 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             | Clear/Transparent |          |

**Contact Songhan Plastic Technology Co.,Ltd.**

Website : [www.lookpolymers.com](http://www.lookpolymers.com)  
Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)  
Tel : +86 021-51131842  
Mobile : +86 13061808058  
Skype : lookpolymers  
Address : United North Road 215,Fengxian District, Shanghai City,China