# Monprene® CP-11180

## Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

### General Information

**Product Description**

The Monprene CP-11100 High Density Series of thermoplastic elastomer compounds, available in NAT or colors, from 40 to 90 Shore A, are designed specifically for consumer product applications requiring a soft, rubber-like feel. Monprene CP-11180 is a medium hardness, high density, filled grade that is suitable for injection molding.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • Chemical Resistant<br>• Filled<br>• General Purpose<br>• Good Adhesion | • Good Colorability<br>• Good Flexibility<br>• Good Processability<br>• High Density | • High Specific Gravity<br>• Medium Hardness |
| Uses | • Appliances<br>• Consumer Applications<br>• Flexible Grips<br>• Furniture<br>• Handles<br>• Household Goods | • Knobs<br>• Personal Care<br>• Rubber Replacement<br>• Safety Equipment<br>• Soft Touch Applications<br>• Sporting Goods | • Stationary Supplies<br>• Toys<br>• Water Sports Equipment<br>• Writing Instruments |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Colors Available | • Opaque | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.14 | | ISO 1183 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress - Across Flow (100% Strain) | 450 | psi | ISO 37 |
| Tensile Stress - Across Flow (Break) | 1710 | psi | ISO 37 |
| Tensile Elongation - Across Flow (Break) | 790 | % | ISO 37 |
| Tear Strength [2] | | | ISO 34-1 |
| Across Flow | 228 | lbf/in | |
| Flow | 223 | lbf/in | |
| Compression Set [3] (158°F, 22 hr) | 49 | % | ISO 815 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Shore Hardness (Shore A, 5 sec) | 80 | | ISO 868 |
| **Additional Information** | **Nominal Value** | **Unit** | **Test Method** |
| Apparent Shear Viscosity - Capillary, @ 206/s (392°F) | 218 | Pa·s | ASTM D3835 |

**Legal Statement**

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### Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Rear Temperature | 320 to 350 | °F |
| Middle Temperature | 360 to 400 | °F |
| Front Temperature | 380 to 420 | °F |
| Nozzle Temperature | 360 to 440 | °F |
| Processing (Melt) Temp | 360 to 440 | °F |
| Mold Temperature | 80 to 120 | °F |
| Injection Rate | Moderate-Fast | |
| Back Pressure | 25.0 to 100 | psi |
| Screw Speed | 50 to 100 | rpm |
| Cushion | 0.150 to 0.500 | in |

**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).

### Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Method Ba, Angle (Unnicked)

[3] Type A


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