# Monprene® CP-28114

## Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

### General Information

**Product Description**

Monprene CP-28114, available in NAT and colors, is a high performance thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-28114 is a low density, low hardness, lubricated grade that is suitable for injection molding and extrusion.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • Good Compression Set<br>• Good Flow<br>• Good Melt Strength<br>• Good Mold Release<br>• Good Moldability | • Low Compression Set<br>• Low Density<br>• Low Hardness<br>• Low Specific Gravity<br>• Lubricated | • Medium Flow<br>• Soft<br>• Without Fillers |
| Uses | • Consumer Applications<br>• Gaskets | • Handles<br>• Rubber Replacement | • Tubing |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Colors Available | • Natural Color | • Opaque |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | • Injection Molding | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 0.880 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 4.0 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress [2] | | | ASTM D412 |
| Across Flow : 100% Strain | 62.0 | psi | |
| Flow : 100% Strain | 108 | psi | |
| Tensile Stress [2] | | | ASTM D412 |
| Across Flow : 300% Strain | 113 | psi | |
| Flow : 300% Strain | 156 | psi | |
| Tensile Strength [2] | | | ASTM D412 |
| Across Flow : Break | 658 | psi | |
| Flow : Break | 226 | psi | |
| Tensile Elongation [2] | | | ASTM D412 |
| Across Flow : Break | 800 | % | |
| Flow : Break | 580 | % | |
| Tear Strength [2] | | | ASTM D624 |
| Across Flow | 73.0 | lbf/in | |
| Flow | 51.0 | lbf/in | |
| Compression Set [3] | | | ASTM D395B |
| 73°F, 22 hr | 8.8 | % | |
| 158°F, 22 hr | 31 | % | |

Revision Date: 1/11/2019

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| Hardness | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Durometer Hardness | | | ASTM D2240 |
| Shore A, 1 sec, Injection Molded | 17 | | |
| Shore A, 5 sec, Injection Molded | 14 | | |

**Legal Statement**

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## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Rear Temperature | 420 to 460 | °F |
| Middle Temperature | 420 to 460 | °F |
| Front Temperature | 420 to 460 | °F |
| Nozzle Temperature | 420 to 460 | °F |
| Processing (Melt) Temp | 420 to 460 | °F |
| Mold Temperature | 60 to 90 | °F |
| Injection Pressure | 200 to 800 | psi |
| Injection Rate | Fast | |
| Back Pressure | 25.0 to 100 | psi |
| Screw Speed | 50 to 100 | rpm |
| Cushion | 0.150 to 1.00 | 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).

| Extrusion | Nominal Value | Unit |
|---|---|---|
| Cylinder Zone 1 Temp. | 400 to 440 | °F |
| Cylinder Zone 2 Temp. | 400 to 440 | °F |
| Cylinder Zone 3 Temp. | 400 to 440 | °F |
| Cylinder Zone 4 Temp. | 400 to 440 | °F |
| Cylinder Zone 5 Temp. | 400 to 440 | °F |
| Die Temperature | 400 to 440 | °F |

**Extrusion Notes**

Screw Speed: 30 to 100 rpm

### Notes

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

[2] Die C, 20 in/min

[3] Type 1

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