# Monprene® CP-32050G XRD1 (PRELIMINARY DATA)

## Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

## General Information

**Product Description**

Monprene CP-32050G XRD1 is a very soft clear low density thermoplastic elastomer gel designed for a variety of consumer product applications. Monprene CP-32050G XRD1 exhibits high flow and is suitable for injection molding.

**General**

| | | | |
|---|---|---|---|
| Material Status | • Preliminary Data | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • Contact Clarity<br>• Good Adhesion<br>• Good Colorability<br>• Good Flexibility<br>• Good Toughness | • Halogen Free<br>• High Flow<br>• Low Density<br>• Low Hardness<br>• Low Specific Gravity | • Resilient<br>• Soft<br>• Without Fillers |
| Uses | • Consumer Applications<br>• Diaphragms<br>• Footwear | • Gaskets<br>• Industrial Applications<br>• O-rings | • Overmolding<br>• Rubber Replacement<br>• Seals |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Clear/Transparent | • Colors Available | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 0.842 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (150°C/2.16 kg) | 70 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress (300% Strain) | 27.6 | psi | ASTM D412 |
| Tensile Strength (Break) | 189 | psi | ASTM D412 |
| Tensile Elongation (Break) | 800 | % | ASTM D412 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness | | | ASTM D2240 |
| Shore OO, 1 sec, Injection Molded | 46 | | |
| Shore OO, 5 sec, Injection Molded | 44 | | |

**Legal Statement**

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## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Rear Temperature | 280 to 298 | °F |
| Middle Temperature | 298 to 320 | °F |
| Front Temperature | 320 to 349 | °F |
| Nozzle Temperature | 298 to 320 | °F |

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| Injection | Nominal Value | Unit |
|---|---|---|
| Processing (Melt) Temp | 298 to 349 | °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).

### Notes

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


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