# Monprene® CE-12090 NAT XRD1 (PRELIMINARY DATA)

## Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

## General Information

**Product Description**

Monprene CE-12090 NAT XRD1, available in NAT and colors, is a high performance thermoplastic elastomer designed for a variety of consumer product applications requiring hard feel. Monprene CE-12090 NAT XRD1 is a low density, high hardness grade that is suitable for injection molding and extrusion, with good clarity.

**General**

| | | | |
|---|---|---|---|
| Material Status | • Preliminary Data | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Uses | • Consumer Applications | | |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Clear/Transparent | | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.02 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 12 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (Break, 73°F) | 5080 | psi | ASTM D412 |
| Tensile Elongation (Break, 73°F) | 100 | % | ASTM D412 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore D, 1 sec) | 60 | | ASTM D2240 |

## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Rear Temperature | 360 to 450 | °F |
| Middle Temperature | 370 to 460 | °F |
| Front Temperature | 380 to 470 | °F |
| Nozzle Temperature | 390 to 480 | °F |
| Processing (Melt) Temp | 390 to 480 | °F |
| Mold Temperature | 95 to 120 | °F |

**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.


**Teknor Apex Company**
**Corporate Headquarters**

*In U.S. for Vinyls, TPEs, Colorants,*

*Engineered Thermoplastics (Chem Polymer)*
505 Central Avenue
Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000
Fax: 401-725-8095
Toll Free (U.S. only) 800-556-3864

www.teknorapex.com
info@teknorapex.com

**Teknor Apex B.V.**

Brightlands Chemelot Campus Umonderbaan 22
6167 RD Geleen, Netherlands

Phone: +31 46 7020 950
Fax: +31 46 7020 990

www.teknorapex.com
tpe@teknorapex.com

**Teknor Apex (Suzhou) Advanced Polymer Compounds Co. Pte. Ltd.**

No. 78 Ping Sheng Road

Suzhou Industrial Park
Jiangsu, China 215126

Phone: (86) 512-6287-1550
Fax: (86) 512-6288-8371

www.teknorapex.com
infotaap@teknoapex.com

**Teknor Apex Asia Pacific PTE. LTD.**

41 Shipyard Road

Singapore 628134

Phone: (65) 6265-2544
Fax: (65) 6265-1821

www.teknorapex.com
infotaap@teknorapex.com


Revision Date: 3/23/2026

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.

Copyright © 2026 UL Prospector