# Monprene® RG-24346 NAT XRD1 (PRELIMINARY DATA)

## Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

## General Information

**Product Description**

The Monprene RG-24000 series is a group of high performance thermoplastic elastomers specifically designed for extruded regulated applications including food contact, toys, and children's products.

| General | | | |
|---|---|---|---|
| Material Status | • Preliminary Data | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Uses | • Closures<br>• Consumer Applications<br>• Gaskets<br>• Handles | • Kitchenware<br>• Medical/Healthcare Applications<br>• Packaging<br>• Safety Equipment | • Sporting Goods<br>• Toothbrush Handles<br>• Tubing<br>• Writing Instruments |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Natural Color | | |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | • Injection Molding | |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 0.892 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.2 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (Break) | 1020 | psi | ASTM D412 |
| Tensile Elongation (Break) | 600 | % | ASTM D412 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness | | | ASTM D2240 |
| Shore A | 48 | | |
| Shore A, 5 sec | 46 | | |

## 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 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).

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| Extrusion | Nominal Value | Unit |
|---|---|---|
| Cylinder Zone 1 Temp. | 360 to 450 | °F |
| Cylinder Zone 2 Temp. | 370 to 460 | °F |
| Cylinder Zone 3 Temp. | 380 to 470 | °F |
| Cylinder Zone 5 Temp. | 390 to 480 | °F |
| Die Temperature | 390 to 480 | °F |

**Extrusion Notes**

Screw Speed: 30 to 100 rpm

### Notes

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


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