# Monprene® RG-19140 NAT XRD1 (PRELIMINARY DATA)

## Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

## General Information

**Product Description**

Monprene RG-19140 NAT XRD1 is a high performance thermoplastic elastomer, available in NAT and colors, designed for regulated applications including food contact. Monprene RG-19140 NAT XRD1 is medium hardness, low density, RoHS compliant grade with excellent adhesion to PP and complies with various US FDA regulations for food contact. This grade is suitable for injection molding. Please contact Teknor Apex for a regulatory compliance letter.

| General | | | |
|---|---|---|---|
| Material Status | • Preliminary Data | | |
| Availability | • Asia Pacific | • Europe | • North America |
| Features | • Chemical Resistant<br>• Food Contact Acceptable<br>• Good Adhesion<br>• Good Colorability | • Good Flexibility<br>• Good Moldability<br>• Good Tear Strength<br>• Good Toughness | • High Hardness<br>• Medium Density |
| Uses | • Closures<br>• Consumer Applications<br>• Gaskets<br>• Handles | • Kitchenware<br>• Packaging<br>• Rubber Replacement<br>• Safety Equipment | • Toothbrush Handles<br>• Tubing |
| Agency Ratings | • FDA Food Contact | | |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Colors Available | • Natural Color | • Translucent |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 0.882 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 5.0 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (Break) | 363 | psi | ASTM D412 |
| Tensile Elongation (Break) | 120 | % | ASTM D412 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness | | | ASTM D2240 |
| Shore A | 42 | | |
| Shore A, 5 sec | 40 | | |

**Legal Statement**

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## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Rear Temperature | 340 to 380 | °F |
| Middle Temperature | 350 to 400 | °F |
| Front Temperature | 360 to 410 | °F |

Revision Date: 6/11/2023

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| Injection | Nominal Value | Unit |
|---|---|---|
| Nozzle Temperature | 370 to 420 | °F |
| Processing (Melt) Temp | 370 to 420 | °F |
| Mold Temperature | 77 to 150 | °F |
| Injection Pressure | 200 to 1000 | psi |
| Injection Rate | Moderate-Fast | |
| Back Pressure | 25.0 to 50.0 | 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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