# Monprene® IN-29340 XRD1 (PRELIMINARY DATA)

## Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

### General Information

**Product Description**

Monprene IN-29340 XRD1 is a general purpose thermoplastic elastomer, available in NAT, BLK, and colors designed for a variety of industrial applications, including seals and gaskets. Monprene IN-29340 XRD1 is a low density, medium hardness, RoHS compliant grade 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 | • Chemical Resistant<br>• Good Colorability<br>• Good Flexibility<br>• Good Processability<br>• Good Toughness | • Low Density<br>• Low Specific Gravity<br>• Lubricated<br>• Medium Flow<br>• Medium Hardness | • Resilient<br>• Slip<br>• Without Fillers |
| Uses | • Flexible Grips<br>• Gaskets<br>• General Purpose<br>• Grommets<br>• Handles | • Industrial Applications<br>• Knobs<br>• Luggage<br>• O-rings<br>• Overmolding | • Plugs<br>• Rubber Replacement<br>• Safety Equipment<br>• Seals |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Black<br>• Colors Available | • Natural Color<br>• Translucent | |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | • Injection Molding | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 0.900 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress [2] (100% Strain) | 124 | psi | ASTM D412 |
| Tensile Strength [2] (Break) | 1660 | psi | ASTM D412 |
| Tensile Elongation [2] (Break) | 800 | % | ASTM D412 |
| Tear Strength [2] | 230 | lbf/in | ASTM D624 |
| Compression Set [3] (73°F, 22 hr) | 15 | % | ASTM D395B |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness | | | ASTM D2240 |
| Shore A, 1 sec, Injection Molded | 39 | | |
| Shore A, 5 sec, Injection Molded | 38 | | |

**Legal Statement**

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### Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Rear Temperature | 360 to 400 | °F |
| Middle Temperature | 360 to 400 | °F |
| Front Temperature | 360 to 400 | °F |
| Nozzle Temperature | 360 to 400 | °F |
| Processing (Melt) Temp | 360 to 400 | °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. | 340 to 380 | °F |
| Cylinder Zone 2 Temp. | 340 to 380 | °F |
| Cylinder Zone 3 Temp. | 340 to 380 | °F |
| Cylinder Zone 4 Temp. | 340 to 380 | °F |
| Cylinder Zone 5 Temp. | 340 to 380 | °F |
| Die Temperature | 340 to 380 | °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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