# Monprene® OM-16478 NAT XRD8 (PRELIMINARY DATA)

## Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

### General Information

| General | | | |
|---|---|---|---|
| Material Status | • Preliminary Data | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • Bondability<br>• Good Adhesion | • Good Colorability<br>• Light Stabilized | • Slip |
| Uses | • Appliances<br>• Bonding<br>• Cell Phones<br>• Flexible Grips | • Handles<br>• Knobs<br>• Overmolding<br>• Power/Other Tools | • Toothbrush Handles<br>• Wear Strip<br>• Writing Instruments |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Natural Color | • Opaque | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.03 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/2.16 kg) | 44 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (Break) | 1900 | psi | ASTM D412 |
| Tensile Elongation (Break) | 900 | % | ASTM D412 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore A, 1 sec) | 76 | | ASTM D2240 |
| **Additional Information** | **Nominal Value** | **Unit** | |
| Adhesion to ABS | | | |
| Adhesion to PC | | | |
| Adhesion to PC/ABS | | | |

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### Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 150 | °F |
| Drying Time | 2.0 to 4.0 | hr |
| Rear Temperature | 280 to 370 | °F |
| Middle Temperature | 310 to 390 | °F |
| Front Temperature | 310 to 420 | °F |
| Nozzle Temperature | 310 to 430 | °F |
| Processing (Melt) Temp | 330 to 430 | °F |

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| Injection | Nominal Value | Unit |
|---|---|---|
| Mold Temperature | 50 to 90 | °F |
| Injection Pressure | 200 to 1000 | psi |
| Injection Rate | Fast | |
| Back Pressure | 25.0 to 125 | psi |
| Screw Speed | 50 to 120 | rpm |
| Cushion | 0.150 to 1.00 | in |

### Notes

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


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