# Monprene® OM-12248

## Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

### General Information

**Product Description**

Monprene OM-12248 is designed for overmolding applications like grips and anti-skid parts for consumer products. Monprene OM-12248 is a low density, medium hardness, RoHS compliant grade that exhibits excellent adhesion to PC, ABS, and PC/ABS.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • Bondability<br>• Good Colorability<br>• Good Mold Release<br>• Good Moldability | • Good Processability<br>• Low Density<br>• Low Specific Gravity<br>• Lubricated | • Medium Flow<br>• Medium Hardness<br>• Slip<br>• Without Fillers |
| Uses | • Appliances<br>• Bonding<br>• Cell Phones<br>• Flexible Grips | • Handles<br>• Knobs<br>• Overmolding<br>• Power/Other Tools | • Sporting Goods<br>• Writing Instruments |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Black<br>• Colors Available | • Natural Color<br>• Opaque | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 0.960 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 5.0 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress [2] | | | ASTM D412 |
| Across Flow : 100% Strain | 252 | psi | |
| Flow : 100% Strain | 290 | psi | |
| Tensile Stress [2] | | | ASTM D412 |
| Across Flow : 300% Strain | 463 | psi | |
| Flow : 300% Strain | 515 | psi | |
| Tensile Strength [2] | | | ASTM D412 |
| Across Flow : Break | 920 | psi | |
| Flow : Break | 921 | psi | |
| Tensile Elongation [2] | | | ASTM D412 |
| Across Flow : Break | 580 | % | |
| Flow : Break | 620 | % | |
| Tear Strength [2] | | | ASTM D624 |
| Across Flow | 170 | lbf/in | |
| Flow | 179 | lbf/in | |
| Compression Set [3] (73°F, 22 hr) | 30 | % | ASTM D395B |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness | | | ASTM D2240 |
| Shore A, 1 sec, Injection Molded | 51 | | |
| Shore A, 5 sec, Injection Molded | 48 | | |

Revision Date: 6/19/2024

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| Additional Information | Nominal Value | Unit |
|---|---|---|
| Adhesion to ABS | | |
| Adhesion to PC | | |
| Adhesion to PC/ABS | | |

**Legal Statement**

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## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 140 | °F |
| Drying Time | 2.0 to 4.0 | hr |
| Rear Temperature | 320 to 392 | °F |
| Middle Temperature | 338 to 410 | °F |
| Front Temperature | 356 to 410 | °F |
| Nozzle Temperature | 356 to 419 | °F |
| Processing (Melt) Temp | 356 to 419 | °F |
| Mold Temperature | 50 to 95 | °F |
| Injection Pressure | 200 to 800 | psi |
| Back Pressure | 25.0 to 125 | psi |
| Screw Speed | 50 to 100 | rpm |
| Cushion | 0.150 to 1.00 | in |

**Injection Notes**

Moisture can degrade the material. Drying is suggested. This can be accomplished by placing the material in a desiccant dryer for 2 to 4 hours at 140°F (60°C).

For any overmolding process it is recommended that the process temperatures for the TPE material be set at least 50°F (10°C)higher than the melt temperature of the substrate material.

## 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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