# Monprene® RG-15150

## Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

### General Information

**Product Description**

The Monprene RG-15100 series is a group of high performance thermoplastic elastomers specifically designed for food contact applications requiring superior resistance to high temperature and chemicals. Monprene RG-15150 is a low density, medium hardness grade that complies with various US FDA and European regulations and directives for food contact and toy safety and is suitable for injection molding. Please contact Teknor Apex for a regulatory compliance letter.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Europe | • Latin America<br>• North America | |
| Features | • BPA Free<br>• Food Contact Acceptable<br>• Good Adhesion<br>• Good Colorability<br>• Good Processability | • Low Density<br>• Low Flow<br>• Low Specific Gravity<br>• Lubricated<br>• Medium Hardness | • No Animal Derived Components<br>• Slip<br>• Without Fillers |
| Uses | • Closures<br>• Consumer Applications<br>• Cosmetic Packaging<br>• Food Containers | • Food Packaging<br>• Food Service Applications<br>• Handles<br>• Kitchenware | • Lids<br>• Non-specific Food Applications<br>• Rubber Replacement<br>• Toys |
| Agency Ratings | • EU Food Contact | • FDA Food Contact | |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Colors Available | • Translucent | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 0.892 | | ISO 1183 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress | | | ISO 37 |
| Across Flow : 100% Strain | 174 | psi | |
| Flow : 100% Strain | 261 | psi | |
| Tensile Stress | | | ISO 37 |
| Across Flow : Break | 1450 | psi | |
| Flow : Break | 914 | psi | |
| Tensile Elongation | | | ISO 37 |
| Across Flow : Break | 830 | % | |
| Flow : Break | 640 | % | |
| Tear Strength [2] | | | ISO 34-1 |
| Across Flow | 91.4 | lbf/in | |
| Flow | 79.9 | lbf/in | |
| Compression Set | | | ISO 815 |
| 73°F, 70 hr [3] | 23 | % | |
| 158°F, 24 hr | 33 | % | |
| 212°F, 24 hr | 41 | % | |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Shore Hardness (Shore A, 5 sec) | 50 | | ISO 868 |

Revision Date: 10/9/2020

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## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Rear Temperature | 320 to 350 | °F |
| Middle Temperature | 360 to 400 | °F |
| Front Temperature | 380 to 420 | °F |
| Nozzle Temperature | 360 to 440 | °F |
| Processing (Melt) Temp | 360 to 440 | °F |
| Mold Temperature | 80 to 120 | °F |
| Injection Rate | Moderate-Fast | |
| Back Pressure | 25.0 to 100 | psi |
| Screw Speed | 50 to 100 | rpm |
| Cushion | 0.150 to 0.500 | 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.

[2] Method Ba, Angle (Unnicked)

[3] Type A

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