# Monprene® CP-16555 (PRELIMINARY DATA)

## Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

### General Information

**Product Description**

The Monprene® CP-16500 series of thermoplastic elastomers (TPEs) is specifically designed for dog toys, offering a sustainable alternative to thermoset rubber with excellent recyclability. Available from 25 to 65 Shore A, these TPEs are formulated with only FDA listed ingredients and mold thick and thin parts with ease. Monprene CP-16555 is an opaque, low gloss specialty TPE that offers superior puncture resistance and excellent tear strength.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • Chemical Resistant<br>• Good Adhesion<br>• Good Colorability<br>• Good Flexibility<br>• Good Melt Strength<br>• Good Moldability | • Good Processability<br>• Good Tear Strength<br>• Good Toughness<br>• Halogen Free<br>• High Elongation<br>• High Tensile Strength | • Low Density<br>• Low Flow<br>• Low Gloss<br>• Medium Hardness<br>• Resilient<br>• Without Fillers |
| Uses | • Consumer Applications<br>• Flexible Grips<br>• Knobs | • Overmolding<br>• Plugs<br>• Rubber Replacement | • Soft Touch Applications<br>• Toys |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Colors Available | • Natural Color | • Opaque |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 0.890 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.70 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress [2] | | | ASTM D412 |
| Across Flow : 100% Strain | 236 | psi | |
| Flow : 100% Strain | 369 | psi | |
| Tensile Stress [2] | | | ASTM D412 |
| Across Flow : 300% Strain | 446 | psi | |
| Flow : 300% Strain | 569 | psi | |
| Tensile Strength [2] | | | ASTM D412 |
| Across Flow : Break | 1130 | psi | |
| Flow : Break | 928 | psi | |
| Tensile Elongation [2] | | | ASTM D412 |
| Across Flow : Break | 670 | % | |
| Flow : Break | 540 | % | |
| Tear Strength [2] | | | ASTM D624 |
| Across Flow | 205 | lbf/in | |
| Flow | 161 | lbf/in | |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness | | | ASTM D2240 |
| Shore A, 1 sec, Injection Molded | 58 | | |
| Shore A, 5 sec, Injection Molded | 55 | | |

Revision Date: 6/25/2021

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## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Rear Temperature | 340 to 440 | °F |
| Middle Temperature | 340 to 440 | °F |
| Front Temperature | 340 to 440 | °F |
| Nozzle Temperature | 340 to 440 | °F |
| Processing (Melt) Temp | 340 to 440 | °F |
| Mold Temperature | 60 to 90 | °F |
| Injection Pressure | 200 to 800 | psi |
| Injection Rate | Fast | |

**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] Die C, 20 in/min

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