# Monprene® PC-15010 CLR XRD1 (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 |
| Uses | • Closures<br>• Consumer Applications<br>• Gaskets<br>• Handles | • Kitchenware<br>• Medical/Healthcare Applications<br>• Packaging<br>• Safety Equipment | • Sporting Goods<br>• Toothbrush Handles<br>• Tubing<br>• Writing Instruments |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Translucent | | |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | • Injection Molding | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 0.872 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.5 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (Break) | 435 | psi | ASTM D412 |
| Tensile Elongation (Break) | 500 | % | ASTM D412 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore A, 1 sec) | 14 | | ASTM D2240 |

### Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Rear Temperature | 248 to 338 | °F |
| Middle Temperature | 356 to 446 | °F |
| Front Temperature | 356 to 446 | °F |
| Nozzle Temperature | 356 to 446 | °F |
| Processing (Melt) Temp | 356 to 446 | °F |
| Mold Temperature | 95 to 120 | °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).

### Notes

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

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