



# Monprene® CP-18150 CLR XRD2 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

## General Information

### Product Description

Monprene CP-18150 CLR XRD2 is a high performance thermoplastic elastomer designed for a variety of industrial and consumer product applications requiring a soft, rubber-like feel. Monprene CP-18150 CLR XRD2 is a low hardness, low density, RoHS compliant grade suitable for injection molding.

### General

|                   |                                                                                         |                                                                             |                                                                  |
|-------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------|
| Material Status   | • Preliminary Data                                                                      |                                                                             |                                                                  |
| Availability      | • Africa & Middle East<br>• Asia Pacific                                                | • Europe<br>• Latin America                                                 | • North America                                                  |
| Features          | • Contact Clarity<br>• Good Mold Release<br>• Good Moldability<br>• Good Processability | • High Elasticity<br>• High Flow<br>• Low Density<br>• Low Specific Gravity | • Lubricated<br>• Medium Hardness<br>• Slip<br>• Without Fillers |
| Uses              | • Consumer Applications<br>• Gaskets                                                    | • General Purpose<br>• Handles                                              |                                                                  |
| RoHS Compliance   | • RoHS Compliant                                                                        |                                                                             |                                                                  |
| Appearance        | • Clear/Transparent                                                                     | • Colors Available                                                          | • Natural Color                                                  |
| Forms             | • Pellets                                                                               |                                                                             |                                                                  |
| Processing Method | • Injection Molding                                                                     |                                                                             |                                                                  |

## ASTM & ISO Properties <sup>1</sup>

| Physical                                  | Nominal Value | Unit     | Test Method |
|-------------------------------------------|---------------|----------|-------------|
| Density / Specific Gravity                | 0.892         |          | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 20            | g/10 min | ASTM D1238  |
| Elastomers                                | Nominal Value | Unit     | Test Method |
| Tensile Strength (Break)                  | 1020          | psi      | ASTM D412   |
| Tensile Elongation (Break)                | 600           | %        | ASTM D412   |
| Hardness                                  | Nominal Value | Unit     | Test Method |
| Durometer Hardness                        |               |          | ASTM D2240  |
| Shore A, 1 sec, Injection Molded          | 52            |          |             |
| Shore A, 5 sec, Injection Molded          | 50            |          |             |

## Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Rear Temperature       | 360 to 450    | °F   |
| Middle Temperature     | 370 to 460    | °F   |
| Front Temperature      | 380 to 470    | °F   |
| Nozzle Temperature     | 390 to 480    | °F   |
| Processing (Melt) Temp | 390 to 480    | °F   |
| Mold Temperature       | 60 to 90      | °F   |

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| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| 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

<sup>1</sup> Typical properties: these are not to be construed as specifications.