



# Monprene® CP-17258 NAT XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

## General Information

### Product Description

Monprene CP-17258 NAT XRD1 is a general purpose thermoplastic elastomer designed for a variety of consumer product applications, including toys, requiring a soft, rubber-like feel. Monprene CP-17258 NAT XRD1 is a low hardness, medium density grade that is suitable for injection molding and is available in other colors.

### General

|                   |                                             |                                                |                                |
|-------------------|---------------------------------------------|------------------------------------------------|--------------------------------|
| Material Status   | • Preliminary Data                          |                                                |                                |
| Availability      | • Africa & Middle East<br>• Asia Pacific    | • Europe<br>• Latin America                    | • North America                |
| Features          | • Good Flow                                 | • Low Hardness                                 | • Medium Density               |
| Uses              | • Consumer Applications<br>• Flexible Grips | • General Purpose<br>• Industrial Applications | • Rubber Replacement<br>• Toys |
| RoHS Compliance   | • RoHS Compliant                            |                                                |                                |
| Appearance        | • 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                | 1.05          |          | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 16            | g/10 min | ASTM D1238  |
| Elastomers                                | Nominal Value | Unit     | Test Method |
| Tensile Stress (300% Strain)              | 450           | psi      | ASTM D412   |
| Tensile Strength (Break)                  | 943           | psi      | ASTM D412   |
| Tensile Elongation (Break)                | 840           | %        | ASTM D412   |
| Hardness                                  | Nominal Value | Unit     | Test Method |
| Durometer Hardness (Shore A)              | 58            |          | ASTM D2240  |

## Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Rear Temperature       | 340 to 380    | °F   |
| Middle Temperature     | 350 to 390    | °F   |
| Front Temperature      | 360 to 400    | °F   |
| Nozzle Temperature     | 370 to 410    | °F   |
| Processing (Melt) Temp | 370 to 410    | °F   |
| Mold Temperature       | 77 to 150     | °F   |
| Injection Pressure     | 200 to 1000   | psi  |
| Injection Rate         | Moderate-Fast |      |
| Back Pressure          | 25.0 to 50.0  | psi  |

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| Injection   | Nominal Value | Unit |
|-------------|---------------|------|
| Screw Speed | 50 to 100     | rpm  |
| Cushion     | 0.150 to 1.00 | in   |

Notes

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