

Product Texts

Preliminary Data

The Monprene CP-17200 Filled, High Flow Series of thermoplastic elastomer compounds, with good UV resistance, available in NAT or colors, from 40 to 80 Shore A, are designed specifically for EU consumer product applications requiring a soft, rubber-like feel. Monprene CP-17280 is a medium hardness, medium density grade that is suitable for injection molding.

Adheres to PP

| Property | Value | Unit | Standard |
|--------------------------------------|-------|------|------------|
| Apparent Viscosity (200 °C, 206 1/s) | 113 | Pas | ASTM D3835 |

| Mechanical properties | Value | Unit | Test Standard |
|----------------------------------|-------|------|---------------|
| ASTM Data | | | |
| Modulus at 100% Elongation | 3.3 | MPa | ASTM D 412 |
| Modulus at 300% Elongation | 1.37 | MPa | ASTM D 412 |
| Shore A Hardness | 80 | - | ASTM D 2240 |
| Compression Set , 22 hr @ 73 °F | 36 | % | ASTM D 395 |
| Compression Set , 22 hr @ 158 °F | 62 | % | ASTM D 395 |
| Tensile Strength at Break | 7.5 | MPa | ASTM D 412 |
| Elongation at Break | 600 | % | ASTM D 412 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1050 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 65 | °C | - |
| Pre-drying - Time | 2 - 4 | h | - |
| Melt temperature | 180 - 230 | °C | - |
| Mold temperature | 15 - 50 | °C | - |
| Zone 1 | 120 - 160 | °C | - |
| Zone 2 | 160 - 230 | °C | - |
| Zone 3 | 180 - 230 | °C | - |
| Nozzle temperature | 180 - 230 | °C | - |
| Screw speed | 50 - 100 | rpm | - |
| Back pressure | 0.5 - 1.5 | MPa | - |

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Additives

Lubricants

Special Characteristics

U.V. stabilized or stable to weather, Opaque

Features

Good Adhesion, Soft Feel

Chemical Resistance

General Chemical Resistance

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa