

Product Texts

Preliminary Data

The Monprene CP-18200 Unfilled, 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-18280 is a medium hardness, low density grade that is suitable for injection molding.

Adheres to PP

| Property | Value | Unit | Standard |
|--------------------------------------|-------|------|------------|
| Apparent Viscosity (200 °C, 206 1/s) | 101 | Pas | ASTM D3835 |

| Mechanical properties | Value | Unit | Test Standard |
|-------------------------------|-------|------|---------------|
| ISO Data | | | |
| Compression set at 23 °C, 24h | 39 | % | ISO 815 |
| Compression set at 70 °C, 24h | 62 | % | ISO 815 |
| ASTM Data | | | |
| Modulus at 100% Elongation | 3.9 | MPa | ASTM D 412 |
| Modulus at 300% Elongation | 1.6 | MPa | ASTM D 412 |
| Shore A Hardness | 80 | - | ASTM D 2240 |
| Tensile Strength at Break | 6.7 | MPa | ASTM D 412 |
| Elongation at Break | 500 | % | ASTM D 412 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 890 | kg/m ³ | ASTM D 792 |

| 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

Special Characteristics

U.V. stabilized or stable to weather, Translucent

Features

Good Adhesion, Soft Feel

Chemical Resistance

General Chemical Resistance

Applications

General Purpose

Regional Availability

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