

TECHNICAL DATA SHEET

Monprene® CP-11140

Teknor Apex Co.

TPE-X

Processing

Injection molding

Delivery Form

Pellets

Special Characteristics

Opaque

Features

Good adhesion, Soft feel

Chemical Resistance

General chemical resistance

Applications

General purpose, Sports equipment

Product Text

Product Information

Preliminary Data

The Monprene CP-11100 High Density Series of thermoplastic elastomer compounds, available in NAT or colors, from 40 to 90 Shore A, are designed specifically for consumer product applications requiring a soft, rubber-like feel. Monprene CP-11140 is a low hardness, high density, filled grade that is suitable for injection molding.

Adheres to PP

| Property | Value | Unit | Standard |
|---------------------------------------|-------|------|------------|
| Tensile Stress at 100% (across flow) | 0.655 | MPa | ISO 37 |
| Tensile Stress at Break (across flow) | 6.83 | MPa | ISO 37 |
| Tensile Strain at Break (across flow) | 950 | % | ISO 37 |
| Tear Strength (across flow) | 14 | kN/m | ISO 34-1 |
| Apparent Shear Viscosity (200 °C) | 200 | Pas | ASTM D3835 |

| Mechanical Properties | Value | Unit | Standard |
|-------------------------------|-------|------|------------|
| Compression set at 70 °C, 24h | 26 | % | ISO 815 |
| Tear strength, parallel | 18 | kN/m | ISO 34-1 |
| Shore A hardness, 15s | 40 | | ISO 7619-1 |

| Other Properties | Value | Unit | Standard |
|------------------|-------|-------------------|------------|
| Density | 1150 | kg/m ³ | ASTM D 792 |

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| Processing Recommendation Injection Molding | Value | Unit | Standard |
|---|---------------|------|----------|
| Pre-drying - temperature | 65 | °C | |
| Pre-drying - time | 2 - 4 | h | |
| Melt temperature | 182 - 227 | °C | |
| Mold temperature | 27 - 49 | °C | |
| Zone 1 | 160 - 177 | °C | |
| Zone 2 | 182 - 204 | °C | |
| Zone 3 | 193 - 216 | °C | |
| Nozzle temperature | 182 - 227 | °C | |
| Screw speed | 50 - 100 | rpm | |
| Back pressure | 0.172 - 0.689 | MPa | |