

TECHNICAL DATA SHEET

Monprene® CP-10180

Teknor Apex Co.

TPE

Processing

Injection molding

Delivery Form

Pellets

Special Characteristics

Translucent

Features

Good adhesion, Soft feel

Chemical Resistance

General chemical resistance

Applications

General purpose, Sports equipment

Product Text

Product Information

Preliminary Data

The Monprene CP-10100 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-10180 is a high hardness, low density, unfilled grade that is suitable for injection molding.

Adheres to PP

Property	Value	Unit	Standard
Apparent Shear Viscosity (200 °C)	260	Pas	ASTM D3835
Processing/Physical Characteristics			
Melt flow index, MFI		9 g/10min	ASTM D 1238
Temperature		200 °C	
Load		5 kg	
Mechanical Properties			
Strain at break		720 %	ISO 37
Stress at 100% elongation		4.27 MPa	
Compression set at 23 °C, 24h		25 %	
Compression set at 70 °C, 24h		44 %	ISO 815
Tear strength, parallel		50 kN/m	ISO 34-1

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Mechanical Properties	Value	Unit	Standard
Shore A hardness, 15s	78		ISO 7619-1
Other Properties	Value	Unit	Standard
Density	888	kg/m ³	ASTM D 792
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	