

**Product Texts**

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-10190 is a higher hardness, low density, unfilled grade that is suitable for injection molding.

Adheres to PP

Property	Value	Unit	Standard
Tensile Stress at 100% (across flow)	4.9	MPa	ISO 37
Tensile Stress at Break (across flow)	17.0	MPa	ISO 37
Tensile Strain at Break (across flow)	810	%	ISO 37
Tear Strength (across flow)	59	kN/m	ISO 34-1
Apparent Shear Viscosity (200 °C)	268	Pas	ASTM D3835

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	9	g/10min	ASTM D 1238
Temperature	200	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Compression set at 70 °C, 24h	47	%	ISO 815
Tear strength	62	kN/m	ISO 34-1
Shore A hardness	90	-	ISO 7619-1

Other properties	Value	Unit	Test Standard
Density	888	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test 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	-

**Characteristics**

**Processing**  
Injection Molding

**Delivery form**  
Pellets

**Special Characteristics**  
Translucent

**Chemical Resistance**  
General Chemical Resistance

**Applications**  
General Purpose, Sports Equipment

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

**Features**

Good Adhesion, Soft Feel