

**Monprene® CP-10180**

TPE

Teknor Apex Co.

**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-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	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>			
Stress at 100% elongation	4.27	MPa	ISO 527
Strain at break	720	%	ISO 37
Compression set at 23 °C, 24h	25	%	ISO 815
Compression set at 70 °C, 24h	44	%	ISO 815
Tear strength	50	kN/m	ISO 34-1
Shore A hardness	78	-	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

**Features**

Good Adhesion, Soft Feel

**Chemical Resistance**

General Chemical Resistance

**Applications**

General Purpose, Sports Equipment

**Regional Availability**

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