

TECHNICAL DATA SHEET

Monprene® CP-18250

Teknor Apex Co.

TPE

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

Product Text

Product Information

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-18250 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)	99	Pas	ASTM D3835
Mechanical Properties	Value	Unit	Standard
Modulus at 100% elongation	1.4	MPa	ASTM D 412
Modulus at 300% elongation	0.67	MPa	ASTM D 412
Shore A hardness	50		ASTM D 2240
Tensile strength at break	7.5	MPa	ASTM D 412
Elongation at break	800	%	ASTM D 412
Compression set at 23 °C, 24h	24	%	
Compression set at 70 °C, 24h	44	%	ISO 815
Other Properties	Value	Unit	Standard
Density	890	kg/m³	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	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	