

# Monprene® CP-17240 (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

The Monprene CP-17200 Filled, 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-17240 is a low hardness, high density grade that is suitable for injection molding.

General Information			
Features	High specific gravity		
	High density		
	Good UV resistance		
	Good formability		
	Good liquidity		
	Good flexibility		
	Good coloring		
	Good adhesion		
	Good chemical resistance		
	Lubrication		
	Fill		
	Hardness, low		
Uses	Handle		
	overmolding		
	Plug		
	Bushing		
	Washer		
	Washer		
	Leather case		
	Soft touch application		
	Soft handle		
	Rubber substitution		
Consumer goods application field			
RoHS Compliance	RoHS compliance		
Appearance	Opacity		
	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method

Density	1.05	g/cm <sup>3</sup>	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	40		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	1.00	MPa	ISO 37
300% strain	1.50	MPa	ISO 37
Tensile Strength (Break)	7.20	MPa	ISO 37
Tensile Elongation (Break)	900	%	ISO 37
Compression Set <sup>1</sup>			ISO 815
23°C, 22 hr	20	%	ISO 815
70°C, 22 hr	38	%	ISO 815
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec <sup>-1</sup> )	109	Pa · s	ISO 11443

#### Legal statement

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Injection	Nominal Value	Unit
Rear Temperature	120 - 160	°C
Middle Temperature	160 - 230	°C
Front Temperature	180 - 230	°C
Nozzle Temperature	180 - 230	°C
Processing (Melt) Temp	180 - 230	°C
Mold Temperature	15 - 50	°C
Injection Rate	Fast	
Back Pressure	0.500 - 1.50	MPa
Screw Speed	50 - 100	rpm
Cushion	3.00 - 20.0	mm

#### Injection instructions

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

#### Extrusion instructions

Screw Speed: 30 to 100 rpm

#### NOTE

1. Method B

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