

# Monprene® CP-17270 (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-17270 is a medium hardness, medium density grade that is suitable for injection molding and extrusion.

General Information	
Features	Good UV resistance
	Good formability
	Good liquidity
	Good flexibility
	Good coloring
	Good adhesion
	Good chemical resistance
	Lubrication
	Fill
	Medium density
	Medium hardness
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	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	70		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	1.90	MPa	ASTM D412
300% strain	2.60	MPa	ASTM D412
Tensile Strength (Break)	7.60	MPa	ASTM D412
Tensile Elongation (Break)	800	%	ASTM D412
Compression Set			ASTM D395
23°C, 22 hr	31	%	ASTM D395
70°C, 22 hr	55	%	ASTM D395
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec <sup>-1</sup> )	107	Pa · s	ASTM D3835

#### Legal statement

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Injection	Nominal Value	Unit
Rear Temperature	182 - 232	°C
Middle Temperature	188 - 238	°C
Front Temperature	193 - 243	°C
Nozzle Temperature	199 - 249	°C
Processing (Melt) Temp	199 - 249	°C
Mold Temperature	35 - 49	°C
Injection Pressure	1.38 - 5.52	MPa
Injection Rate	Fast	
Back Pressure	0.172 - 0.689	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	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	Nominal Value	Unit
Cylinder Zone 1 Temp.	182 - 232	°C
Cylinder Zone 2 Temp.	188 - 238	°C
Cylinder Zone 3 Temp.	193 - 243	°C
Cylinder Zone 4 Temp.	199 - 249	°C

Cylinder Zone 5 Temp.	199 - 249	°C
Die Temperature	199 - 249	°C
Extrusion instructions		
Screw Speed: 30 to 100 rpm		

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#### Recommended distributors for this material

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