

Monprene® CP-18960

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene® CP-18960 is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is extrusion or injection molding.

Monprene® The main features of the CP-18960 are:

Good UV resistance

daylight resistance

Transparency

Typical application areas include:

industrial applications

Consumer goods

Handle

General Information			
Features	Low Specific Gravity		
	Sunlight Resistant		
	Without Fillers		
	Low density		
	smoothness		
	Good UV resistance		
	Good coloring		
	Medium liquidity		
	General		
	Transparent appearance		
	Medium hardness		
Uses	Industrial application		
	Soft handle		
	General		
	Consumer goods application field		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness		ASTM D2240	
Shaw A	62	ASTM D2240	
Shaw A, 5 seconds	60	ASTM D2240	
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	9.65	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Tear Strength	33.3	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	18	%	ASTM D395B
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	35.0 - 48.9	°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			
无需干燥,但如果湿度过大,则将粒料在150°F (65°C)的温度下干燥2-4小时.			
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 5 Temp.	199 - 249	°C	
Die Temperature	199 - 249	°C	
Extrusion instructions			
螺杆转速30 - 100 rpm			

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