

Monprene® CP-37350

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene® CP-37350 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-37350 are:

- Good flexibility
- excellent release agent
- Typical application areas include:
- Handle
- safety equipment
- kitchen utensils
- engineering/industrial accessories
- Hose

General Information			
Features	Flexibility at low temperatures		
	Good liquidity		
	Fill		
	General		
	Good demoulding performance		
Uses	Safety equipment		
	Handle		
	Kitchen utensils		
	Washer		
	Pipe fittings		
	Sporting goods		
	Stationery		
	Consumer goods application field		
	Toothbrush handle		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	13	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240

Shaw A	52		ASTM D2240
Shaw A, 5 seconds	50		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	1.20	MPa	ASTM D412
300% strain	2.17	MPa	ASTM D412
Tensile Strength (Break)	6.70	MPa	ASTM D412
Tensile Elongation (Break)	800	%	ASTM D412
Tear Strength	22.0	kN/m	ASTM D624
Compression Set (23°C)	16	%	ASTM D395
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			
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 5 Temp.	199 - 249	°C	
Die Temperature	199 - 249	°C	
Extrusion instructions			

Screw Speed: 30 to 100 rpm

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