

Monprene® SP-16920 XRD2 (PRELIMINARY DATA)

Thermoplastic Elastomer
Teknor Apex Company

Message:
Monprene SP-16920 XRD2 is a general purpose thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene SP-16920 XRD2 is a low hardness, low density grade which exhibits good toughness. This grade is suitable for injection molding.

General Information			
Features	Low density		
	Good formability		
	Good flexibility		
	Good coloring		
	Good chemical resistance		
	Good toughness		
	Soft		
	Extended tensile rate		
	Hardness, low		
	Elastic		
Uses	Safety equipment		
	Handle		
	Seals		
	Soft touch application		
	General		
	Consumer goods application field		
	Knob		
RoHS Compliance	RoHS compliance		
Appearance	Translucent		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.880	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness		ASTM D2240	
Shore A, 1 second, injection molding	20	ASTM D2240	
Shore A, 5 seconds, injection molding	19	ASTM D2240	
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1.81	MPa	ASTM D412
Tensile Elongation (Break)	> 600	%	ASTM D412

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).

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