Monprene® CP-29451 XRD (PRELIMINARY

DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene CP-29451 XRD is a high performance thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-29451 XRD is a lubricated, medium hardness, low density grade that is suitable for injection molding and extrusion.

General Information					
Features	Low Specific Gravity				
	Without Fillers				
	Low density				
	smoothness Low liquidity				
	Medium hardness				
Uses	Safety equipment				
	Handle				
	Washer				
	Pipe fittings				
	Sporting goods				
	Stationery				
	Consumer goods application field				
RoHS Compliance	RoHS compliance				
Appearance	Opacity				
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) (200°C/5.0 kg)	2.0	g/10 min	ASTM D1238		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness			ASTM D2240		
Shore A, 1 second, injection molding	53		ASTM D2240		
Shore A, 5 seconds, injection molding	51		ASTM D2240		
Elastomers	Nominal Value	Unit	Test Method		

Tensile Stress ¹			ASTM D412
Transverse flow: 100% strain	1.85	MPa	ASTM D412
Flow: 100% strain	3.33	MPa	ASTM D412
Transverse flow: 300% strain	3.77	MPa	ASTM D412
Flow: 300% strain	4.96	MPa	ASTM D412
Tensile Strength ²			ASTM D412
Transverse flow: Fracture	8.09	MPa	ASTM D412
Flow: Fracture	5.16	MPa	ASTM D412
Tensile Elongation ³			ASTM D412
Transverse flow: Fracture	580	%	ASTM D412
Flow: Fracture	480	%	ASTM D412
Tear Strength ⁴			ASTM D624
Transverse flow	40.5	kN/m	ASTM D624
Flow	28.4	kN/m	ASTM D624
Compression Set ⁵			ASTM D395B
23°C, 22 hr	8.3	%	ASTM D395B
70°C, 22 hr	86	%	ASTM D395B
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		

188 - 238 193 - 243

Cylinder Zone 2 Temp.

Cylinder Zone 3 Temp.

°C

°C

Cylinder Zone 5 Temp.	199 - 249	°C
Die Temperature	199 - 249	്റ
Extrusion instructions		
Screw Speed: 30 to 100 rpm		
NOTE		
1.	C mold, 510mm/min	
2.	C mold, 510mm/min	
3.	C mold, 510mm/min	
4.	C mold, 510mm/min	

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