

Monprene® CP-39040D XRD (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

Monprene CP-39040D XRD, available in NAT, is a high performance thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-39040D XRD is a low density, high hardness, filled grade that is suitable for injection molding and extrusion.

General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Filled • High Hardness	• Low Density • Low Flow	• Low Specific Gravity
Uses	• Consumer Applications	• General Purpose	• Profiles
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ASTM D412
Across Flow : 100% Strain	1280	psi	
Flow : 100% Strain	1830	psi	
Tensile Stress ²			ASTM D412
Across Flow : 300% Strain	1330	psi	
Flow : 300% Strain	1890	psi	
Tensile Strength ²			ASTM D412
Across Flow : Break	1810	psi	
Flow : Break	1890	psi	
Tensile Elongation ²			ASTM D412
Across Flow : Break	700	%	
Flow : Break	310	%	
Tear Strength ²			ASTM D624
Across Flow	405	lbf/in	
Flow	594	lbf/in	
Compression Set ³			ASTM D395B
73°F, 22 hr	49	%	
158°F	77	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D, 1 sec, Injection Molded	42		
Shore D, 5 sec, Injection Molded	40		

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Revision Date: 1/18/2017

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	360 to 400	°F
Middle Temperature	370 to 410	°F
Front Temperature	380 to 420	°F
Nozzle Temperature	390 to 440	°F
Processing (Melt) Temp	390 to 440	°F
Mold Temperature	60 to 110	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 50.0	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	360 to 420	°F
Cylinder Zone 2 Temp.	360 to 420	°F
Cylinder Zone 3 Temp.	360 to 420	°F
Cylinder Zone 5 Temp.	360 to 420	°F
Die Temperature	360 to 420	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

² Die C, 20 in/min

³ Type 1

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