Monprene® CP-32038G CLR

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

Monprene CP-32038G CLR is a very soft clear low density thermoplastic elastomer gel designed for a variety of consumer product applications. Monprene CP-32038G CLR, available in CLR and colors, exhibits high flow and is suitable for injection molding.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion • Good Colorability • Good Flexibility • Good Processability • Good Surface Finish	• Good Toughness • High Elongation • High Flow • Low Density • Low Hardness	• Low Specific Gravity • Resilient • Soft • Without Fillers
Uses	• Consumer Applications • Gaskets • O-rings	• Overmolding • Rubber Replacement • Seals	• Soft Touch Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Black • Clear/Transparent	• Colors Available • Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.874		ASTM D792
Melt Mass-Flow Rate (MFR) (125°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	6.96	psi	
Flow : 100% Strain	12.6	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	283	psi	
Flow : Break	252	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	1000	%	
Flow : Break	1000	%	
Tear Strength [3]			ASTM D624
Across Flow	28.0	lbf/in	
Flow	28.0	lbf/in	
Compression Set [4]			ASTM D395
73°F, 22 hr	28	%	
158°F, 22 hr	100	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore OO, 1 sec, Injection Molded	40		
Shore OO, 5 sec, Injection Molded	38		

Revision Date: 6/1/2016

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Legal Statement

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	260 to 320	°F
Middle Temperature	300 to 340	°F
Front Temperature	320 to 360	°F
Nozzle Temperature	340 to 380	°F
Processing (Melt) Temp	340 to 380	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 800	psi
Injection Rate	Slow-Moderate	
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in

Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Notes

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

[2] Die C, 20 in/min

[3] Die C, 0.79 in/min

[4] Type 1

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