

Monprene® CP-32053G CLR

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

Monprene CP-32053G CLR is a very soft clear low density thermoplastic elastomer gel designed for a variety of consumer product applications. Monprene CP-32053G CLR 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	• Contact Clarity • Good Adhesion • Good Colorability • Good Flexibility • Good Toughness	• Halogen Free • High Flow • Low Density • Low Hardness • Low Specific Gravity	• Resilient • Soft • Without Fillers
Uses	• Consumer Applications • Diaphragms • Footwear	• Gaskets • Industrial Applications • O-rings	• Overmolding • Rubber Replacement • Seals
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.880		ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/2.16 kg)	20	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	50.0	psi	ASTM D412
Tensile Strength (Break)	300	psi	ASTM D412
Tensile Elongation (Break)	1100	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	5		
Shore OO, 1 sec, Injection Molded	55		
Shore OO, 5 sec, Injection Molded	53		

Legal Statement

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	320 to 380	°F
Middle Temperature	320 to 380	°F
Front Temperature	320 to 380	°F
Nozzle Temperature	320 to 380	°F

Revision Date: 2/8/2017

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Injection	Nominal Value	Unit
Processing (Melt) Temp	320 to 380	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 800	psi
Injection Rate	Fast	
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.

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