+135-3858-6433 (GuangDong)
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TEKNOR APEX

Monprene® CP-13057G CLR

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Monprene CP-13057G CLR is a very soft clear thermoplastic elastomer gel designed for a variety of consumer product applications. This grade 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	• High Flow • Low Density	• Low Hardness • Low Specific Gravity	• Soft • Without Fillers
Uses	• Consumer Applications • Safety Equipment	• Sporting Goods • Writing Instruments	
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.870		ASTM D792
Melt Mass-Flow Rate (MFR) (125°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	14.0	psi	
Flow : 100% Strain	25.0	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	23.0	psi	
Flow : 300% Strain	60.0	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	323	psi	
Flow : Break	272	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	2100	%	
Flow : Break	790	%	
Tear Strength [2]			ASTM D624
Across Flow	47.0	lbf/in	
Flow	32.0	lbf/in	
Compression Set [3] (73°F, 22 hr)	39	%	ASTM D395B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	8		
Shore OO, 5 sec, Injection Molded	57		

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Processing Information		
Injection	**Nominal Value**	**Unit**
Rear Temperature	250 to 350	°F
Middle Temperature	260 to 360	°F
Front Temperature	270 to 370	°F
Nozzle Temperature	280 to 380	°F
Processing (Melt) Temp	280 to 380	°F
Mold Temperature	50 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.

[2] Die C, 20 in/min

[3] Type 1