

Monprene® CP-13057G CLR

Thermoplastic Elastomer

Teknor Apex Company

Message:

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 Information			
Features	Low Specific Gravity		
	Without Fillers		
	Low density		
	High liquidity		
	Soft		
	Hardness, low		
Uses	Safety equipment		
	Sporting goods		
	Stationery		
	Consumer goods application field		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.868	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (125°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 second, injection molding	8		ASTM D2240
Shore OO, 5 seconds, injection molding	57		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Transverse flow: 100% strain ¹	0.0965	MPa	ASTM D412
Flow: 100% strain ²	0.172	MPa	ASTM D412
Transverse flow: 300% strain ³	0.159	MPa	ASTM D412
Flow: 300% strain ⁴	0.414	MPa	ASTM D412
Tensile Strength ⁵			ASTM D412
Transverse flow: Fracture	2.23	MPa	ASTM D412
Flow: Fracture	1.88	MPa	ASTM D412
Tensile Elongation ⁶			ASTM D412

Transverse flow: Fracture	2100	%	ASTM D412
Flow: Fracture	790	%	ASTM D412
Tear Strength ⁷			ASTM D624
Transverse flow	8.23	kN/m	ASTM D624
Flow	5.60	kN/m	ASTM D624
Compression Set ⁸ (23°C, 22 hr)	39	%	ASTM D395B

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

Injection	Nominal Value	Unit
Rear Temperature	121 - 177	°C
Middle Temperature	127 - 182	°C
Front Temperature	132 - 188	°C
Nozzle Temperature	138 - 193	°C
Processing (Melt) Temp	138 - 193	°C
Mold Temperature	10.0 - 32.2	°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

无需干燥.但如果湿度过大,则将粒料在150°F (65°C)的温度下干燥2-4小时.

NOTE

1. Mouth die C, 510mm/min
2. Mouth die C, 510mm/min
3. C mold, 510mm/min
4. C mold, 510mm/min
5. C mold, 510mm/min
6. Mouth die C, 510mm/min
7. C mold, 510mm/min
8. Type 1

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

