

# Monprene® CP-32054G CLR

Thermoplastic Elastomer

Teknor Apex Company

## Message:

Monprene CP-32054G CLR is a very soft clear thermoplastic elastomer gel designed for a variety of consumer product applications. Monprene CP-32054G CLR is a low density, high flow, high elasticity grade that is suitable for injection molding or extrusion.

General Information			
Features	Low Specific Gravity		
	Without Fillers		
	Low density		
	High elasticity		
	High liquidity		
	Transparent appearance		
	Hardness, low		
Uses	Safety equipment		
	Handle		
	Sporting goods		
	Stationery		
	Consumer goods application field		
	Footwear		
RoHS Compliance	RoHS compliance		
Appearance	Clear/transparent		
	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.878	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/2.16 kg)	27	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 second, injection molding	8		ASTM D2240
Shao's OO, 1 second, injection molding	58		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	0.414	MPa	ASTM D412

Tensile Strength (Break)	2.76	MPa	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412

#### Legal statement

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Injection	Nominal Value	Unit
Rear Temperature	127 - 160	°C
Middle Temperature	149 - 171	°C
Front Temperature	160 - 182	°C
Nozzle Temperature	171 - 193	°C
Processing (Melt) Temp	171 - 193	°C
Mold Temperature	16 - 32	°C
Injection Pressure	1.38 - 5.52	MPa
Injection Rate	Slow-Moderate	
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.

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	127 - 160	°C
Cylinder Zone 2 Temp.	149 - 171	°C
Cylinder Zone 3 Temp.	160 - 193	°C
Cylinder Zone 5 Temp.	171 - 193	°C
Die Temperature	171 - 193	°C

#### Extrusion instructions

螺杆转速30 - 100 rpm

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