

Elastocon® CLR75

Thermoplastic Elastomer
Elastocon TPE Technologies

Message:

Elastocon® CLR75 is a transparent thermoplastic elastomer that has been developed for applications that require oil/plasticizer free, non-blooming high strength properties and a tactile surface finish. Elastocon® CLR75 is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. Elastocon® CLR75 can be overmolded onto polypropylene. Elastocon® CLR75 is supplied as ready to use pellets in 1000 lb. quantities.

General Information			
Features	The surface finish is not smooth.		
	No frost		
	High strength		
	Good UV resistance		
Uses	overmolding		
	Industrial application		
	Consumer goods application field		
Agency Ratings	FDA not rated		
Appearance	Clear/transparent		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	75		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	4.20	MPa	ASTM D412
Tensile Strength (Yield)	10.0	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Injection	Nominal Value	Unit	
Rear Temperature	166 - 177	°C	
Front Temperature	182 - 188	°C	
Nozzle Temperature	193 - 204	°C	
Mold Temperature	21.1 - 37.8	°C	
Injection Rate	Fast		
Back Pressure	0.689 - 1.38	MPa	
Injection instructions			
Elastocon® CLR40 thermoplastic elastomer compound does not require drying.			
Extrusion	Nominal Value	Unit	

Hopper Temperature	< 79.4	°C
Cylinder Zone 1 Temp.	149 - 177	°C
Cylinder Zone 2 Temp.	149 - 177	°C
Cylinder Zone 3 Temp.	149 - 177	°C
Cylinder Zone 4 Temp.	149 - 177	°C
Cylinder Zone 5 Temp.	149 - 177	°C
Die Temperature	149 - 177	°C

Extrusion instructions

Compression ratio: 2.5 to 3.0

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