

Elastocon® CLR15

Thermoplastic Elastomer

Elastocon TPE Technologies

Message:

Elastocon® CLR15 is a transparent thermoplastic elastomer that has been developed for applications that require resilience, high strength properties and a good surface finish. Elastocon® CLR15 is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. Elastocon® CLR15 is supplied as ready to use pellets in 40 lb. bag quantities.

General Information			
Features	High strength		
	Good UV resistance		
	Excellent appearance		
	Elastic		
Uses	Industrial application		
	Consumer goods application field		
Agency Ratings	FDA not rated		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	15		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	0.220	MPa	ASTM D412
Tensile Strength	6.08	MPa	ASTM D412
Tensile Elongation (Break)	860	%	ASTM D412
Tear Strength	20.0	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Rear Temperature	177	°C	
Middle Temperature	188 - 199	°C	
Front Temperature	193 - 204	°C	
Nozzle Temperature	199 - 204	°C	
Processing (Melt) Temp	199 - 204	°C	
Mold Temperature	16 - 49	°C	
Injection Rate	Slow		
Back Pressure	0.172 - 1.03	MPa	

Injection instructions

Elastocon® CLR15 thermoplastic elastomer compound does not require drying.

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	154 - 160	°C
Cylinder Zone 2 Temp.	160 - 171	°C
Cylinder Zone 3 Temp.	171 - 177	°C
Cylinder Zone 4 Temp.	182 - 188	°C
Cylinder Zone 5 Temp.	177 - 182	°C
Die Temperature	160 - 171	°C

Extrusion instructions

Screw Speed: 75 to 125 RPM

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