

Elastocon® CLR31FX

Thermoplastic Elastomer
Elastocon TPE Technologies

Message:

Elastocon® CLR31FX is a transparent functionalized thermoplastic elastomer that has been developed for applications that require resilience, high strength properties, a good surface finish, print ability, and universal bonding for overmold adhesion. Elastocon® CLR31FX is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. Elastocon® CLR31FX can be overmolded onto polypropylene and various other plastic and metal substrates.

Elastocon® CLR31FX is supplied as ready to use pellets in 40 lb. bag quantities.

General Information	
Features	High strength Excellent printability 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	Blow molding Extrusion Injection molding

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)	31		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	0.630	MPa	ASTM D412
Tensile Strength	6.40	MPa	ASTM D412
Tensile Elongation (Break)	620	%	ASTM D412
Tear Strength	22.8	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Rear Temperature	166 - 177	°C	
Front Temperature	182 - 188	°C	
Nozzle Temperature	193 - 204	°C	
Mold Temperature	21 - 38	°C	

Injection Rate	Fast	
Back Pressure	0.689 - 1.38	MPa
Screw Compression Ratio	2.5:1.0 - 3.0:1.0	

Injection instructions

Elastocon® CLR31FX thermoplastic elastomer compound does not require drying.

Extrusion	Nominal Value	Unit
Hopper Temperature	79	°C
Cylinder Zone 1 Temp.	149	°C
Cylinder Zone 5 Temp.	177	°C

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