elastocon
TPE Technologies

CLR30

Elastocon® CLR30 is a transparent thermoplastic elastomer that has been developed for applications that require resilience, high strength properties and a good surface finish. Elastocon® CLR30 is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability.

Elastocon® CLR30 is supplied as ready to use pellets in 40 lb. quantities.

Typical Physical Properties			
Property	**Referenced ASTM Test Method**	**Test Unit**	**Typical Value**
Hardness	ASTM D2240	Shore A	**25**
Specific Gravity	ASTM D792	g/cc	**.89**
Tensile Properties	ASTM D412		
Tensile Strength	ASTM D412	Mpa (psi)	**7.8 (1135)**
100% Modulus	ASTM D412	Mpa (psi)	**.34 (50)**
Elongation	ASTM D412	%	**878**
Tear Strength	ASTM D624	pli	**125**

For additional technical, sales, and order assistance:

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Sales and Technical Assistance:

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Processing

Elastocon® thermoplastic elastomers are shear dependent and have been formulated to process on conventional thermoplastic equipment for injection molding, extrusion or blow molding.

For extrusion, a general purpose screw with a compression ratio of 2.5 to 3.0 is suggested. The feed zone temperature should be no higher than 175F. We generally suggest increasing the zone temperatures along the extruder barrel from about 300F/149C at the zone next to the feed zone, to about 350F/177C at the die body. Typical injection molding conditions for a reciprocating screw machine are listed in the chart below. These values are intended only as guidelines, and optimum conditions will vary from machine, material being modified, and mold configuration.

Suggested Processing Conditions		
Barrel Temperatures	**English**	**SI**
Rear	340-350F	171-177C
Center	350-380F	177-193C
Front	360-410F	182-210C
Nozzle	370-510F	188-266C
Melt	370-410F	188-210C
Mold Temperature	60F-120F	15.6-49C
Back Pressure	25-150 psi	.17-1.03 MPa
Injection Rate	Slow	Slow

Elastocon® CLR30 thermoplastic elastomer compound does not require drying.

Elastocon® thermoplastic elastomers are not compatible with flexible PVC and should not be blended with or used in an application where direct contact is intended.

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