



CLR35

Elastocon® CLR35 is a transparent thermoplastic elastomer that has been developed for applications that require resilience, high strength properties and a good surface finish. Elastocon® CLR35 is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability.

Elastocon® CLR35 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	38
Specific Gravity	ASTM D792	g/cc	.90
Tensile Properties	ASTM D412		
Tensile Strength	ASTM D412	Mpa (psi)	10.2 (1491)
100% Modulus	ASTM D412	Mpa (psi)	.83 (120)
Elongation	ASTM D412	%	786
Tear Strength	ASTM D624	pli	148

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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	350-360F	177-182C
Center	380-390F	193-199C
Front	400-420F	204-216C
Nozzle	400-420F	204-216C
Melt	400-420F	204-216C
Mold Temperature	60F-120F	15.6-49C
Back Pressure	50-150 psi	.34-1.03 MPa
Injection Rate	Slow	Slow

Elastocon® CLR35 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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