



2880L

Elastocon® 2880L thermoplastic elastomer has been developed for applications that require rubber-like properties and a reduced coefficient of friction. Elastocon® 2880L is FDA compliant and well suited for consumer goods and industrial applications. Elastocon® 2880L can be overmolded onto polypropylene.

Elastocon® 2880L is supplied as ready to use pellets in 50 lb. bag quantities.

Typical Physical Properties			
Property	Referenced ASTM Test Method	Test Unit	Typical Value
Hardness	ASTM D2240	Shore A	80
Specific Gravity	ASTM D792	g/cc	.9
Tensile Properties	ASTM D412		
Tensile Strength	ASTM D412	Mpa (psi)	6.7 (972)
100% Modulus	ASTM D412	Mpa (psi)	4.8 (692)
Elongation	ASTM D412	%	415
Compression Set	ASTM D395B	22 hrs/70°C	18
Tear Strength	ASTM D624	pli	227

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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/79C. 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	330-350F	166-177C
Front	360-370F	182-188C
Nozzle	380-400F	193-204C
Mold Temperature	70F-100F	21.1-37.8C
Back Pressure	100-200 psi	.689-1.38 MPa
Injection Rate	Fast	Fast

Elastocon® 2880L 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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