



# 8078N

Elastocon® 8078N is a colorable thermoplastic elastomer formulated for applications that require rubber-like properties and a good surface finish. Elastocon® 8078N is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. Elastocon® 8078N can be overmolded to polypropylene.

Elastocon® 8078N is supplied as ready to use pellets in 1000 lb. 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	1.02
Tensile Properties	ASTM D412		
Tensile Strength	ASTM D412	Mpa (psi)	7.58 (1100)
100% Modulus	ASTM D412	Mpa (psi)	3.83 (556)
Elongation	ASTM D412	%	560
Tear Strength	ASTM D624	pli	196

For additional technical, sales, and order 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/79C. Increasing the zone temperatures along the extruder barrel from about 375F/191C at the zone next to the feed zone, to about 450F/232C 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.

<b>Suggested Processing Conditions</b>		
<b>Barrel Temperatures</b>	<b>English</b>	<b>SI</b>
Rear	350-380F	177-193C
Front	360-390F	182-199C
Nozzle	370-400F	188-204C
<b>Mold Temperature</b>	70F-100F	21.1-37.8C
<b>Back Pressure</b>	50-100 psi	.345-.689 MPa
<b>Injection Rate</b>	Moderate - Fast	Moderate - Fast

**Elastocon® 8078N thermoplastic elastomer compound does not require drying.**

Elastocon® concentrates and compounds 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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