



8048N

Elastocon® 8048N is a colorable thermoplastic elastomer formulated for applications that require rubber-like properties and a good surface finish. Elastocon® 8048N is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. Elastocon® 8048N can be overmolded to polypropylene.

Elastocon® 8048N is supplied as ready to use pellets in 50 lb. bag and 1000 lb. box quantities.

Typical Physical Properties			
Property	Referenced ASTM Test Method	Test Unit	Typical Value
Hardness	ASTM D2240	Shore A	48
Specific Gravity	ASTM D792	g/cc	1.04
Tensile Properties	ASTM D412		
Tensile Strength	ASTM D412	Mpa (psi)	5.86 (851)
100% Modulus	ASTM D412	Mpa (psi)	1.59 (232)
Elongation	ASTM D412	%	745
Tear Strength	ASTM D624	pli	111

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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. Increasing the zone temperatures along the extruder barrel from about 375F at the zone next to the feed zone, to about 450F 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 and mold configuration

Suggested Processing Conditions	
Barrel Temperatures	
Rear	345 - 375F
Front	355 - 385F
Nozzle	365 - 400F
Mold Temperature	70 - 100F
Back Pressure	50 - 100 Psi
Injection Rate	Moderate to fast

Elastocon® 8048N thermoplastic elastomer compound does not require drying.

Elastocon® concentrates 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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