



9050B

Elastocon® 9050B is a black thermoplastic elastomer formulated for applications that require high impact resistance and a good surface finish. Elastocon® 9050B is well suited for consumer goods and industrial applications requiring U.V. stability. Elastocon® 9050B can be overmolded to polypropylene.

Elastocon® 9050B 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 D	50
Specific Gravity	ASTM D792	g/cc	.99
Tensile Properties	ASTM D412		
Tensile Strength	ASTM D412	Mpa (psi)	12.7 (1839)
100% Modulus	ASTM D412	Mpa (psi)	10 (1454)
Elongation	ASTM D412	%	541
Tear Strength	ASTM D624	pli	439

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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.

Suggested Processing Conditions		
Barrel Temperatures	English	SI
Rear	350-380F	177-193C
Front	360-390F	182-199C
Nozzle	370-400F	188-204C
Mold Temperature	70F-100F	21.1-37.8C
Back Pressure	100-200 psi	.689-1.38 MPa
Injection Rate	Moderate - Fast	Moderate - Fast

Elastocon® 9050B 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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