

# Evoprene™ 027

Styrene Butadiene Styrene Block Copolymer

AlphaGary

Message:

The Evoprene™ Standard series is based mostly on SBS (styrene-butadiene -styrene) block copolymer rather than the hydrogenated SEBS type. This is a lower cost polymerso these grades are generally available at reduced cost compared with the Evoprene™ G or GC grades. SBS is the block copolymer form of SBR rubber and the properties generally mirror those of its vulcanisable cousin. Compounds produced from SBS block copolymer are suitable for a wide range of applications including extruded door, window and furniture seals and rubbing strips, mats, bump stops, grommets, coat hanger pads, toy components etc. Compounds remain flexible to very low temperatures (-60°C, - 75°F) and can be used at up to +55 - 60°C (130 - 140°F). A wide range of hardnesses is available from the mid 20s Shore A to about 60 Shore D. Many compounds are formulated for good ozone resistance but whilst grades pigmented black can be used for external application non black grades will quickly harden and discolour outside.

General Information			
Features	Block Copolymer		
	Good Colorability		
	Good Processability		
	Good Surface Finish		
	High Clarity		
	Ozone Resistant		
	Recyclable Material		
	Resilient		
Uses	Grommets		
	Seals		
	Toys		
RoHS Compliance	Contact Manufacturer		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.990	g/cm³	ISO 2782
Molding Shrinkage	0.50 to 1.2	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	28		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	0.700	MPa	ISO 37
Tensile Stress (Yield)	4.40	MPa	ISO 37
Tensile Elongation (Break)	860	%	ISO 37
Tear Strength <sup>1</sup>	18	kN/m	ISO 34-1

Compression Set (22°C, 72 hr)	14	%	ISO 815
Additional Information	Nominal Value	Unit	Test Method
M-S Flow	1.67	MPa	Internal Method
Ozone Resistance <sup>2</sup>	crack		Internal Method
Injection	Nominal Value	Unit	
Suggested Max Regrind	20	%	
Rear Temperature	160 to 180	°C	
Middle Temperature	160 to 180	°C	
Front Temperature	160 to 180	°C	
Nozzle Temperature	150 to 170	°C	
Processing (Melt) Temp	220	°C	
Mold Temperature	15.0 to 30.0	°C	
Injection Rate	Fast		
Vent Depth	0.020 to 0.050	mm	
NOTE			
1.	Method Ba, Angle (Unnicked)		
2.	100 pphm, 20%str		

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