Evoprene™ 089

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	1.04	g/cm³	ISO 2782
Molding Shrinkage	0.050 to 1.2	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	51		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	1.60	MPa	ISO 37
Tensile Stress (Yield)	4.20	MPa	ISO 37
Tensile Elongation (Break)	680	%	ISO 37
Tear Strength [1]	24	kN/m	ISO 34-1

Compression Set (22°C, 72 hr)	30	%	ISO 815
Additional Information	**Nominal Value**	**Unit**	**Test Method**
M-S Flow	3.63	MPa	Internal Method
Ozone Resistance [2]	pass		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		

Recommended distributors for this material

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