

Evoprene™ G 971

Styrene Ethylene Butylene Styrene Block Copolymer

AlphaGary

Message:

A very wide range of Evoprene™ G compounds is available for applications in all sectors of industry. The range is based on the widely specified SEBS (styrene - ethylene butylene - styrene) and related hydrogenated block copolymers. These polymers are fully saturated, i.e. there are no double bonds present so the resistance to oxidation, ozone and general outdoor weathering is excellent. For extended outdoor use, however, it is important to ensure additional UV stabilization is specified, especially in light colours. Evoprene™ G grades are used in service over a wide temperature range (see notes below) but each component should be fully assessed for temperature resistance before being put into service.

General Information			
Features	Block Copolymer		
	Food Contact Acceptable		
	Good Colorability		
	Good Electrical Properties		
	Good Processability		
	Good Weather Resistance		
	Oxidation Resistant		
	Ozone Resistant		
	Recyclable Material		
Uses	Outdoor Applications		
Agency Ratings	EU Food Contact, Unspecified Rating		
	FDA Food Contact, Unspecified Rating		
RoHS Compliance	Contact Manufacturer		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Coextrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 2782
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	83		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	3.50	MPa	ISO 37
Tensile Stress (Yield)	10.5	MPa	ISO 37
Tensile Elongation (Break)	490	%	ISO 37
Tear Strength ¹	38	kN/m	ISO 34-1
Compression Set			ISO 815

22°C, 72 hr	36	%	
70°C, 22 hr	53	%	
100°C, 22 hr	72	%	
Electrical	Nominal Value	Unit	
Volume Resistivity	1.0E+15	ohms·cm	
Electric Strength	24 to 28	kV/mm	
Additional Information	Nominal Value	Unit	Test Method
M-S Flow	1.08	MPa	Internal Method
Injection	Nominal Value	Unit	
Suggested Max Regrind	20	%	
Rear Temperature	170 to 190	°C	
Middle Temperature	170 to 190	°C	
Front Temperature	170 to 190	°C	
Nozzle Temperature	170 to 190	°C	
Processing (Melt) Temp	250	°C	
Mold Temperature	30.0 to 60.0	°C	
Injection Rate	Fast		
Vent Depth	0.020 to 0.050	mm	
NOTE			

1. Method Ba, Angle (Unnicked)

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