

# Evoprene™ G 968

## Styrene Ethylene Butylene Styrene Block Copolymer

### AlphaGary



Prospector

#### Product Description

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

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• Block Copolymer	• Good Weather Resistance	• Recyclable Material
	• Good Electrical Properties	• Oxidation Resistant	
	• Good Processing Stability	• Ozone Resistant	
Uses	• Compounding		
	• Outdoor Applications		
Agency Ratings	• EU Food Contact, Unspecified Rating	• FDA Food Contact, Unspecified Rating	
RoHS Compliance	• Contact Manufacturer		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Coextrusion	• Injection Molding	

Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm <sup>3</sup>	ISO 2782
Molding Shrinkage	1.2 to 2.0	%	

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	2.80	MPa	ISO 37
Tensile Stress (Yield)	6.20	MPa	ISO 37
Tensile Elongation (Break)	550	%	ISO 37
Tear Strength <sup>2</sup>	31	kN/m	ISO 34-1
Compression Set			ISO 815
22°C, 72.0 hr	20	%	
70°C, 22.0 hr	33	%	
100°C, 22.0 hr	52	%	

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	47		ISO 868

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohm·cm	IEC 60093
Electric Strength	26	kV/mm	IEC 60243-1

Additional Information	Nominal Value	Unit	Test Method
M-S Flow	1.27	MPa	Internal Method

Injection	Nominal Value	Unit
Suggested Max Re grind	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

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Method Ba, Angle (Unnicked)