Evoprene™ G 942

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	Translucent
Forms	Pellets
Processing Method	Coextrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm³	ISO 2782
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	42		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	1.30	MPa	ISO 37
Tensile Stress (Yield)	6.10	MPa	ISO 37
Tensile Elongation (Break)	540	%	ISO 37
Tear Strength [1]	27	kN/m	ISO 34-1
Compression Set			ISO 815

22°C, 72 hr	20	%	
70°C, 22 hr	63	%	
100°C, 22 hr	73	%	
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	1.57	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)		

Recommended distributors for this material

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