Evoprene™ G 925

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.

Features Food Contact Acceptable Food Contact Acceptable Good Colorability Good Electrical Properties Good Processability Good Electrical Properties Good Weather Resistance Oxidation Resistant Ozone Resistant Recyclable Material Ozone Resistant Ozone Resist	General Information					
Good Colorability Good Electrical Properties Good Processability Good Processability Good Processability Good Weather Resistance Oxidation Resistant Ozone Resistant Recyclable Material Recyclable Mate	Features	Block Copolymer				
Good Electrical Properties Good Processability Good Weather Resistance Oxidation Resistant Ozone Resistant Recyclable Material Uses Agency Ratings EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating FOOD Con		Food Contact Acceptable				
Good Processability Good Weather Resistance Oxidation Resistant Ozone Resistant Recyclable Material Uses Outdoor Applications EU Food Contact, Unspecified Rating FDA Food Food Food Food Food Food Food Foo		Good Colorability				
Good Weather Resistance Oxidation Resistant Ozone Resistant Recyclable Material Uses Outdoor Applications Agency Ratings EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating FORMS Appearance Translucent Forms Pellets Processing Method Coextrusion Injection Molding Physical Nominal Value Unit Test Method Density 0.890 g/cm³ 1SO 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 30 Cextrusion Quint Shore Hardness (Shore A) 30 Quint Shore Hardness (Shore A) 30 Quint Test Method Shore Hardness (Shore A) 30 Quint Quint Test Method Shore Hardness (Shore A) 30 Quint		Good Electrical Properties				
Ozone Resistant Recyclable Material Uses Outdoor Applications Agency Ratings EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating ROHS Compliance Contact Manufacturer Appearance Iranslucent Forms Pellets Processing Method Ocestrusion Injection Molding Physical Nominal Value Unit Test Method Density 0.890 9/cm³ 1SO 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) Shore Hardness (Shore A) Shore Hardness (Shore A) Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 0.900 MPa 1SO 37 Tensile Stress (Yield) 5.50 MPa 1SO 37 Tensile Elongation (Break) 600 % Non/m		Good Processability				
Uses Outdoor Applications Agency Ratings EU Food Contact, Unspecified Rating FDA Food Contact Manufacturer 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) 30 Unit Test Method Shore Hardness (Shore A) 30 Unit Test Method Shore Hardness (Shore A) 30 White Test Method Fensile Stress (100% Strain) 0.900 MPa ISO 37 Tensile Stress (100% Strain) 0.900 MPa ISO 37 Tensile Stress (Yield) 5.50 MPa ISO 37 Tensile Stress (Yield) 600 % ISO 37 Tensile Elongation (Break) 600 % ISO 37		Good Weather Resistance				
Recyclable Material Uses Outdoor Applications Agency Ratings EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating RoHS Compliance Contact Manufacturer Appearance Translucent Forms Pellets Processing Method Coextrusion Injection Molding Test Method Physical Nominal Value Unit Test Method Density 0.890 g/cm³ ISO 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 30 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 0.900 MPa ISO 37 Tensile Etongation (Break) 600 % ISO 37 Tensile Etongation (Break) 600 % ISO 37 Tensile Etongation (Break) 600 % ISO 37		Oxidation Resistant				
Uses Agency Ratings EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating FOOD Contact Manufacture FOOD Contact Manufacture FOOD Contact Manufacture FOOD Contact Manufacture FOOD Contact Manufact		Ozone Resistant				
Agency Ratings EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rat		Recyclable Material				
Agency Ratings EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rat	Uses	Outdoor Applications				
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) 30 Unit Test Method Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 0.900 MPa ISO 37 Tensile Stress (Yield) 5.50 MPa ISO 37 Tensile Elongation (Break) 600 % ISO 37 Tensile Elongation (Break) 15 KN/m ISO 34-1	Agency Ratings	EU Food Contact, Unspecified Rating				
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) 30 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 0.900 MPa ISO 37 Tensile Stress (Yield) 5.50 MPa ISO 37 Tensile Elongation (Break) 600 % KN/m ISO 34-1						
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) 30 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 0.900 MPa ISO 37 Tensile Stress (Yield) 5.50 MPa ISO 37 Tensile Elongation (Break) 600 % KN/m ISO 34-1						
Forms Pellets Processing Method Coextrusion Injection Molding Physical Nominal Value Unit Test Method Density 0.890 9/cm³ 150 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 30 Unit Test Method Elastomers Nominal Value Unit Test Method Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 0.900 MPa 150 37 Tensile Stress (Yield) 5.50 MPa 150 37 Tensile Elongation (Break) 600 % NMPa 150 37 Tensile Elongation (Break) 150 37						
Processing Method Coextrusion Injection Molding Physical Nominal Value Unit Test Method Density 0.890 y/cm³ ISO 2782 Hardness Nominal Value Unit Test Method Test Method Test Method Method Shore Hardness (Shore A) Sloo 888 Elastomers Nominal Value Unit Test Method Test Method MPa ISO 37 Tensile Stress (Yield) 5.50 MPa MPa ISO 37 Tensile Elongation (Break) Tensile Strength¹ Nominal Value KN/m ISO 37	Appearance					
Injection MoldingPhysicalNominal ValueUnitTest MethodDensity0.890g/cm³ISO 2782HardnessNominal ValueUnitTest MethodShore Hardness (Shore A)30ISO 868ElastomersNominal ValueUnitTest MethodTensile Stress (100% Strain)0.900MPaISO 37Tensile Stress (Yield)5.50MPaISO 37Tensile Elongation (Break)600%ISO 37Tear Strength 115kN/mISO 34-1	Forms	Pellets				
PhysicalNominal ValueUnitTest MethodDensity0.890g/cm³ISO 2782HardnessNominal ValueUnitTest MethodShore Hardness (Shore A)30ISO 868ElastomersNominal ValueUnitTest MethodTensile Stress (100% Strain)0.900MPaISO 37Tensile Stress (Yield)5.50MPaISO 37Tensile Elongation (Break)600%ISO 37Tear Strength 115kN/mISO 34-1	Processing Method	Coextrusion				
Density 0.890 g/cm³ ISO 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 30 Unit Test Method Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 0.900 MPa ISO 37 Tensile Stress (Yield) 5.50 MPa ISO 37 Tensile Elongation (Break) 600 % ISO 37 Tear Strength 1 15 kN/m ISO 34-1		Injection Molding				
Hardness (Shore A) 30 ISO 868 Elastomers (100% Strain) 0.900 MPa ISO 37 Tensile Stress (Yield) 5.50 MPa ISO 37 Tensile Elongation (Break) 600 % ISO 37 Tear Strength 1 15 kN/m	Physical	Nominal Value	Unit	Test Method		
Shore Hardness (Shore A) 30 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 0.900 MPa ISO 37 Tensile Stress (Yield) 5.50 MPa ISO 37 Tensile Elongation (Break) 600 % ISO 37 Tear Strength 1 15 kN/m ISO 34-1	Density	0.890	g/cm³	ISO 2782		
ElastomersNominal ValueUnitTest MethodTensile Stress (100% Strain)0.900MPaISO 37Tensile Stress (Yield)5.50MPaISO 37Tensile Elongation (Break)600%ISO 37Tear Strength 115kN/mISO 34-1	Hardness	Nominal Value	Unit	Test Method		
Tensile Stress (100% Strain) 0.900 MPa ISO 37 Tensile Stress (Yield) 5.50 MPa ISO 37 Tensile Elongation (Break) 600 % ISO 37 Tear Strength 1 15 kN/m ISO 34-1	Shore Hardness (Shore A)	30		ISO 868		
Tensile Stress (Yield)5.50MPaISO 37Tensile Elongation (Break)600%ISO 37Tear Strength 115kN/mISO 34-1	Elastomers	Nominal Value	Unit	Test Method		
Tensile Elongation (Break) 600 % ISO 37 Tear Strength 1 15 kN/m ISO 34-1	Tensile Stress (100% Strain)	0.900	MPa	ISO 37		
Tear Strength ¹ 15 kN/m ISO 34-1	Tensile Stress (Yield)	5.50	MPa	ISO 37		
	Tensile Elongation (Break)	600	%	ISO 37		
Compression Set ISO 815	Tear Strength ¹	15	kN/m	ISO 34-1		
	Compression Set			ISO 815		

22°C, 72 hr	14	%	
70°C, 22 hr	89	%	
100°C, 22 hr	97	%	
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	2.55	МРа	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)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

