## Evoprene™ G 3293

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 A Pool Contact Acceptable   Food Contact Acceptable   Good Colorability   Good Electrical Properties   Good Processability   Good Electrical Properties   Good Weather Resistance   Oxidation Resistant   Ozone Resistant   Recyclable Material   Pool Contact Unspecified Rating   Pool Contact Unspecified Ra	General Information						
Good Colorability Good Electrical Properties Good Processability Good Weather Resistance Oxidation Resistant Oxone Resistant Recyclable Material  Uses Outdoor Applications Agency Ratings EU Food Contact, Unspecified Rating FDA Food C	Features	Block Copolymer	Block Copolymer				
Good Floetrical Properties  Good Processability  Good Weather Resistance Oxidation Resistant Ozone Resistant Recyclable Material  Uses  Agency Ratings  EU Food Contact, Unspecified Rating FDA Food		Food Contact Acceptable	Food Contact Acceptable				
Good Processability Good Weather Resistance Oxidation Resistant Ozone Resistant Recyclable Material  Uses Outdoor Applications Agency Ratings EU Food Contact, Unspecified Ratiry FDA Food Contact,		Good Colorability	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 F		Good Electrical Properties	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 FDA Food Contact, Unspecified Rating ROHS Compliance Contact Manufacturer  Appearance Clear/Transparent Forms Pellets Processing Method Coextrusion Injection Molding  Physical Nominal Value Unit Test Method Density 0.880 g/cm³ 1SO 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 43 Clear/Manufacture Unit Test Method Test Method Shore Hardness (Shore A) 1SO 868 Elastomers Nominal Value Unit Test Method Test Method MPa 1SO 37 Tensile Stress (Yield) 5.80 MPa 1SO 37 Tensile Stress (Yield) 5.80 MPa 1SO 37 Tensile Elongation (Break) 600 % 1SO 37		Good Processability	Good Processability				
Uses Outdoor Applications Agency Ratings  EU Food Contact, Unspecified Rating FDA Foo		Good Weather Resistance	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     Clear/Transparent       Forms     Pellets       Processing Method     Coextrusion       Injection Molding     Test Method       Physical     Nominal Value     Unit     Test Method       Beardiness     Nominal Value     Unit     Test Method       Shore Hardness (Shore A)     43     150 868       Elastomers     Nominal Value     Unit     Test Method       Tensile Stress (100% Strain)     1.20     MPa     150 37       Tensile Stress (Yield)     5.80     MPa     150 37       Tensile Elongation (Break)     600     %     150 37       Tensile Strength 1     21     KN/m     ISO 36-1		Oxidation Resistant					
Uses  Agency Ratings  EU Food Contact, Unspecified Rating  FDA Food Contact, Unspecified Rating  FOOD FOOD FOOD FOOD FOOD FOOD FOOD FOO		Ozone Resistant	Ozone Resistant				
Agency Ratings  EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Park Food Con		Recyclable Material					
Agency Ratings  EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Park Food Con	llcac	Outdoor Applications					
ROHS Compliance Contact Manufacturer  Appearance Clear/Transparent  Forms Pellets  Processing Method Coextrusion Injection Molding  Physical Nominal Value Unit Test Method  Density 0.880 g/cm³ ISO 2782  Hardness Nominal Value Unit Test Method  Shore Hardness (Shore A) 43 Unit Test Method  Elastomers Nominal Value Unit Test Method  Tensile Stress (100% Strain) 1.20 MPa ISO 37  Tensile Stress (Yield) 5.80 MPa ISO 37  Tensile Elongation (Break) 600 % KN/m ISO 34-1							
RoHS Compliance Contact Manufacturer  Appearance Clear/Transparent  Forms Pellets  Processing Method Coextrusion Injection Molding  Physical Nominal Value Unit Test Method  Density 0.880 g/cm³ ISO 2782  Hardness Nominal Value Unit Test Method  Shore Hardness (Shore A) 43 ISO 868  Elastomers Nominal Value Unit Test Method  Tensile Stress (100% Strain) 1.20 MPa ISO 37  Tensile Stress (Yield) 5.80 MPa ISO 37  Tensile Elongation (Break) 600 % ISO 37  Tensile Elongation (Break) 121 kN/m ISO 34-1	Agency Natings						
Appearance Clear/Transparent Forms Pellets Processing Method Coextrusion Injection Molding  Physical Nominal Value Unit Test Method Density 0.880 g/cm³ ISO 2782  Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 43 ISO 868  Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 1.20 MPa ISO 37  Tensile Stress (Yield) 5.80 MPa ISO 37  Tensile Elongation (Break) 600 % ISO 37  Tensile Elongation (Break) 121 KN/m ISO 34-1		TDA Tood Contact, onspe	cined Nating				
Forms Pellets Processing Method Coextrusion Injection Molding  Physical Nominal Value Unit Test Method Density 0.880 g/cm³ ISO 2782  Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 43 Unit Test Method Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 1.20 MPa ISO 37  Tensile Stress (Yield) 5.80 MPa ISO 37  Tensile Elongation (Break) 600 % MNM ISO 34-1  Tensile Elongation (Break) 120 kN/m ISO 34-1	RoHS Compliance	Contact Manufacturer	Contact Manufacturer				
Processing Method  Physical  Nominal Value  Unit  Test Method  Density  0.880  y/cm³  ISO 2782  Hardness  Nominal Value  Unit  Test Method  Test Method  ISO 868  Elastomers  Nominal Value  Unit  Test Method  Test Method  Test Method  MPa  ISO 37  Tensile Stress (Yield)  5.80  MPa  Tensile Elongation (Break)  600  kN/m  KN/m  ISO 34-1	Appearance	Clear/Transparent	Clear/Transparent				
Injection MoldingPhysicalNominal ValueUnitTest MethodDensity0.880g/cm³ISO 2782HardnessNominal ValueUnitTest MethodShore Hardness (Shore A)43ISO 868ElastomersNominal ValueUnitTest MethodTensile Stress (100% Strain)1.20MPaISO 37Tensile Stress (Yield)5.80MPaISO 37Tensile Elongation (Break)600%ISO 37Tear Strength 121kN/mISO 34-1	Forms	Pellets	Pellets				
Physical         Nominal Value         Unit         Test Method           Density         0.880         g/cm³         ISO 2782           Hardness         Nominal Value         Unit         Test Method           Shore Hardness (Shore A)         43         ISO 868           Elastomers         Nominal Value         Unit         Test Method           Tensile Stress (100% Strain)         1.20         MPa         ISO 37           Tensile Stress (Yield)         5.80         MPa         ISO 37           Tensile Elongation (Break)         600         %         ISO 37           Tear Strength 1         21         kN/m         ISO 34-1	Processing Method	Coextrusion					
Density         0.880         g/cm³         ISO 2782           Hardness         Nominal Value         Unit         Test Method           Shore Hardness (Shore A)         43         Unit         Test Method           Elastomers         Nominal Value         Unit         Test Method           Tensile Stress (100% Strain)         1.20         MPa         ISO 37           Tensile Stress (Yield)         5.80         MPa         ISO 37           Tensile Elongation (Break)         600         %         ISO 37           Tear Strength 1         21         kN/m         ISO 34-1		Injection Molding	Injection Molding				
Density         0.880         g/cm³         ISO 2782           Hardness         Nominal Value         Unit         Test Method           Shore Hardness (Shore A)         43         Unit         Test Method           Elastomers         Nominal Value         Unit         Test Method           Tensile Stress (100% Strain)         1.20         MPa         ISO 37           Tensile Stress (Yield)         5.80         MPa         ISO 37           Tensile Elongation (Break)         600         %         ISO 37           Tear Strength 1         21         kN/m         ISO 34-1							
Hardness (Shore A) 43 ISO 868 Elastomers (100% Strain) 1.20 MPa ISO 37 Tensile Stress (Yield) 5.80 MPa ISO 37 Tensile Elongation (Break) 600 % ISO 37 Tear Strength 1 21 MPA ISO 34-1	Physical	Nominal Value	Unit	Test Method			
Shore Hardness (Shore A) 43 ISO 868  Elastomers Nominal Value Unit Test Method  Tensile Stress (100% Strain) 1.20 MPa ISO 37  Tensile Stress (Yield) 5.80 MPa ISO 37  Tensile Elongation (Break) 600 % ISO 37  Tear Strength 1 21 kN/m ISO 34-1	Density	0.880	g/cm³	ISO 2782			
ElastomersNominal ValueUnitTest MethodTensile Stress (100% Strain)1.20MPaISO 37Tensile Stress (Yield)5.80MPaISO 37Tensile Elongation (Break)600%ISO 37Tear Strength 121kN/mISO 34-1	Hardness	Nominal Value	Unit	Test Method			
Tensile Stress (100% Strain)1.20MPaISO 37Tensile Stress (Yield)5.80MPaISO 37Tensile Elongation (Break)600%ISO 37Tear Strength 121kN/mISO 34-1	Shore Hardness (Shore A)	43		ISO 868			
Tensile Stress (Yield) 5.80 MPa ISO 37 Tensile Elongation (Break) 600 % ISO 37 Tear Strength 1 21 kN/m ISO 34-1	Elastomers	Nominal Value	Unit	Test Method			
Tensile Elongation (Break) 600 % ISO 37 Tear Strength 1 21 kN/m ISO 34-1	Tensile Stress (100% Strain)	1.20	MPa	ISO 37			
Tear Strength <sup>1</sup> 21 kN/m ISO 34-1	Tensile Stress (Yield)	5.80	MPa	ISO 37			
	Tensile Elongation (Break)	600	%	ISO 37			
Compression Set (22°C, 72 hr) 46 % ISO 815	Tear Strength <sup>1</sup>	21	kN/m	ISO 34-1			
	Compression Set (22°C, 72 hr)	46	%	ISO 815			

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	1.67	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			

Method Ba, Angle (Unnicked)

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