Evoprene™ GC 645

Styrene Ethylene Butylene Styrene Block Copolymer AlphaGary

Message:

The Evoprene™ GC series was created to provide cost effective solutions for processors and end users alike. If temperature resistance, weatherability and processing performance are paramount then it is best to choose an Evoprene™ Super G, HP or Evoprene™ G grade. But if a reduction in temperature resistance can be tolerated and cost is important, the Evoprene™ GC range provides an excellent choice. Low Temperature performance is maintained at a high level with flexibility retained to -50 to -60° C depending on grade. In addition, all grades have excellent ozone resistance, and electrical resistance is in line with other Evoprene™ G compounds. Weatherability can be improved by the selection of appropriate stabiliser systems and special grades can be formulated to give superior UV resistance.

Features Block Copolymer Bondability Food Contact Acceptable Good Colorability Good Processability Good Processability Ozone Resistant Agency Ratings EU Food Contact, Unspecified Rating FDA Food Food Contact, Unspecified Rating FDA	General Information					
Food Contact Acceptable Good Colorability Good Processability Good Processability Agency Ratings EU Food Contact, Unspecified Rating FDA Food Contact, Unspec	Features	Block Copolymer				
Good Colorability Good Flexibility Good Processability Ozone Resistant BU Food Contact, Unspecified Rating FDA Food Molarity FOOD FOOD FOOD FOOD FOOD FOOD FOOD FOOD		Bondability				
Good Flexibility Good Processability Ozone Resistant EU Food Contact, Unspecified Rating FDA Food Molding Feodomatic Food Food Food Food Molding Food Food Food Food Food Food Food Food Food		Food Contact Acceptable				
Agency Ratings EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rat		Good Colorability				
Agency Ratings EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating ROHS Compliance Contact Manufacturer Appearance Opaque Forms Pellets Processing Method Extrusion Injection Molding Physical Nominal Value Unit Test Method Density 1.03 g/cm³ ISO 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 86 Elastomers Nominal Value Unit Test Method Shore Hardness (Shore A) 86 Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 5.50 MPa 1SO 37 Tensile Stress (Yield) 8.50 MPa 1SO 37 Tensile Elongation (Break) 540 MPa 1SO 37 Tensile Elongation (Break) 540 MPa 1SO 37 Tensile Stress (Yield) 8.50 MPa 1SO 37 Tensile Stress (Yield) 1SO 3815 Additional Information 1Nominal Value 1Nit 1Test Method 1Niternal Method		Good Flexibility				
Agency Ratings EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating ROHS Compliance Contact Manufacturer Appearance Opaque Forms Pellets Processing Method Extrusion Injection Molding Physical Nominal Value Unit Test Method Density 1.03 g/cm³ ISO 2782 Hardness Nominal Value Unit Test Method Density Hardness (Shore A) 86 Elastomers Nominal Value Unit Test Method Densite Stress (100% Strain) 5.50 MPa 1SO 37 Tensile Elongation (Break) 50 37 Tensile Elongation (Break) 46 KN/m SO 34-1 Compression Set (70°C, 22 hr) 62 Mominal Value Unit Test Method Hola SO 37 Tensile Elongation (Break) MPa SO 37 Tensile Elongation (Break) MPa SO 37 Tensile Elongation (Break) MPa SO 34-1 Compression Set (70°C, 22 hr) 62 MPa MPa Internal Method M-S Flow Nominal Value Unit Test Method Internal Method		Good Processability				
ROHS Compliance Contact Manufacturer Appearance Opaque Forms Pellets Processing Method Extrusion Injection Molding Physical Nominal Value Unit Test Method Density 1.03 g/cm³ ISO 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 86 Unit Test Method Elastomers Nominal Value Unit Test Method Forms ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 5.50 MPa ISO 37 Tensile Stress (Yield) 8.50 MPa ISO 37 Tensile Stress (Yield) 8.		Ozone Resistant				
ROHS Compliance Contact Manufacturer Appearance Opaque Forms Pellets Processing Method Extrusion Injection Molding Physical Nominal Value Unit Test Method Density 1.03 g/cm³ ISO 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 86 Unit Test Method Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 5.50 MPa ISO 37 Tensile Stress (Yield) 8.50 MPa ISO 34-1 Compression Set (70°C, 22 hr) 62 MPa ISO 815 Additional Information Nominal Value Unit Test Method M-5 Flow Internal Method	Agency Ratings	EU Food Contact, Unspecified Rating				
Appearance Opaque Forms Pellets Processing Method Extrusion Injection Molding Physical Nominal Value Unit Test Method Density 1.03 g/cm³ 150 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 86 Unit Test Method Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 5.50 MPa 150 37 Tensile Stress (Yield) 8.50 MPa 150 37 Tensile Elongation (Break) 540 MPa 150 37 Tensile Elongation (Break) 540 MPa 150 37 Tensile Flongation (Break) 540 MPa 150 34-1 Compression Set (70°C, 22 hr) 62 MN/m 150 34-1 Compression Set (70°C, 22 hr) 62 MN/m 150 34-1 Tensile Flongation (Break) Nominal Value Unit Test Method M-S Flow MPa Internal Method		FDA Food Contact, Unspecified Rating				
Forms Pellets Processing Method Extrusion Injection Molding Physical Nominal Value Unit Test Method Density 1.03 g/cm³ ISO 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 86 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 5.50 MPa ISO 37 Tensile Stress (Yield) 8.50 MPa ISO 37 Tensile Elongation (Break) 540 % ISO 37 Tear Strength¹ 46 kN/m ISO 37 Tear Strength¹ 46 kN/m ISO 34-1 Compression Set (70°C, 22 hr) 62 % ISO 815 Additional Information Nominal Value Unit Test Method M-S Flow INOM ISO 38-1 Tensile Flow INOM ISO 34-1 Tensile Flow ISO 37 Tensile Flow ISO 37 Tensile Flompation (Break) 540 % ISO 37 Tensile Flompation (Break) 150 34-1 Tensile Flompation Set (70°C, 22 hr) 62 % ISO 815 Additional Information Nominal Value Unit Test Method	RoHS Compliance	Contact Manufacturer				
Processing Method Extrusion Injection Molding Physical Nominal Value Unit Test Method Density 1.03 g/cm³ ISO 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 86 Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 5.50 MPa ISO 37 Tensile Stress (Yield) 8.50 MPa ISO 37 Tensile Elongation (Break) 540 MPa Whym ISO 37 Tear Strength 1 46 KN/m ISO 37 Tear Strength 1 46 KN/m ISO 34-1 Compression Set (70°C, 22 hr) 62 Mea Mea Internal Method Mes Mea Internal Method	Appearance	Opaque				
Physical Nominal Value Unit Test Method Density 1.03 g/cm³ ISO 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 86 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 5.50 MPa ISO 37 Tensile Elongation (Break) 5.40 MPa ISO 37 Tensile Elongation (Break) 540 kN/m ISO 37 Tear Strength 1 46 kN/m ISO 34-1 Compression Set (70°C, 22 hr) 62 % ISO 815 Additional Information Nominal Value Unit Test Method M-S Flow 0.785 MPa Internal Method	Forms	Pellets				
Physical Nominal Value Unit Test Method Density 1.03 g/cm³ ISO 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 86 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 5.50 MPa ISO 37 Tensile Elongation (Break) 540 % ISO 37 Tear Strength 1 46 kN/m ISO 34-1 Compression Set (70°C, 22 hr) 62 % ISO 815 Additional Information Nominal Value Unit Test Method M-S Flow 0.785 MPa Internal Method	Processing Method	Extrusion				
Density 1.03 g/cm³ ISO 2782 Hardness Nominal Value Unit Test Method Shore Hardness (Shore A) 86 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 5.50 MPa ISO 37 Tensile Elongation (Break) 540 % ISO 37 Tear Strength 1 46 kN/m ISO 34-1 Compression Set (70°C, 22 hr) 62 % ISO 815 Additional Information Nominal Value Unit Test Method M-S Flow 0.785 MPa Internal Method		Injection Molding				
Hardness (Shore A) 86 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 5.50 MPa ISO 37 Tensile Stress (Yield) 8.50 MPa ISO 37 Tensile Elongation (Break) 540 MPa ISO 37 Tensile Strength 1 46 KN/m ISO 34-1 Compression Set (70°C, 22 hr) 62 Wind MPa ISO 34-1 Additional Information Nominal Value Unit Test Method M-S Flow Internal Method	Physical	Nominal Value	Unit	Test Method		
Shore Hardness (Shore A) 86 ISO 868 Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 5.50 MPa ISO 37 Tensile Stress (Yield) 8.50 MPa ISO 37 Tensile Elongation (Break) 540 % ISO 37 Tear Strength ¹ 46 kN/m ISO 34-1 Compression Set (70°C, 22 hr) 62 % ISO 815 Additional Information Nominal Value Unit Test Method M-S Flow 0.785 MPa Internal Method	Density	1.03	g/cm³	ISO 2782		
Elastomers Nominal Value Unit Test Method Tensile Stress (100% Strain) 5.50 MPa ISO 37 Tensile Stress (Yield) 8.50 MPa ISO 37 Tensile Elongation (Break) 540 % ISO 37 Tear Strength 1 46 kN/m ISO 34-1 Compression Set (70°C, 22 hr) 62 % ISO 815 Additional Information Nominal Value Unit Test Method M-S Flow 1 Nominal Method	Hardness	Nominal Value	Unit	Test Method		
Tensile Stress (100% Strain) 5.50 MPa ISO 37 Tensile Stress (Yield) 8.50 MPa ISO 37 Tensile Elongation (Break) 540 % ISO 37 Tear Strength 1 46 kN/m ISO 34-1 Compression Set (70°C, 22 hr) 62 % ISO 815 Additional Information Nominal Value Unit Test Method M-S Flow NPa Internal Method	Shore Hardness (Shore A)	86		ISO 868		
Tensile Stress (Yield)8.50MPaISO 37Tensile Elongation (Break)540%ISO 37Tear Strength 146kN/mISO 34-1Compression Set (70°C, 22 hr)62%ISO 815Additional InformationNominal ValueUnitTest MethodM-S Flow0.785MPaInternal Method	Elastomers	Nominal Value	Unit	Test Method		
Tensile Elongation (Break) 540 % ISO 37 Tear Strength 1 46 kN/m ISO 34-1 Compression Set (70°C, 22 hr) 62 % ISO 815 Additional Information Nominal Value Unit Test Method M-S Flow 0.785 MPa Internal Method	Tensile Stress (100% Strain)	5.50	MPa	ISO 37		
Tear Strength 1 46 kN/m ISO 34-1 Compression Set (70°C, 22 hr) 62 % ISO 815 Additional Information Nominal Value Unit Test Method M-S Flow 0.785 MPa Internal Method	Tensile Stress (Yield)	8.50	MPa	ISO 37		
Compression Set (70°C, 22 hr)62%ISO 815Additional InformationNominal ValueUnitTest MethodM-S Flow0.785MPaInternal Method	Tensile Elongation (Break)	540	%	ISO 37		
Additional Information Nominal Value Unit Test Method M-S Flow 0.785 MPa Internal Method	Tear Strength ¹	46	kN/m	ISO 34-1		
M-S Flow 0.785 MPa Internal Method	Compression Set (70°C, 22 hr)	62	%	ISO 815		
	Additional Information	Nominal Value	Unit	Test Method		
Injection Nominal Value Unit	M-S Flow	0.785	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	240	°C	
Mold Temperature	20.0 to 40.0	°C	
Injection Rate	Moderate-Fast		
Vent Depth	0.020 to 0.050	mm	
NOTE			

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

1.

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

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

