

# Evoprene™ GC 5647

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.

General Information			
Features	Block Copolymer		
	Bondability		
	Food Contact Acceptable		
	Good Colorability		
	Good Flexibility		
	Good Processability		
	Ozone Resistant		
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	0.960	g/cm <sup>3</sup>	ISO 2782
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	50		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	1.30	MPa	ISO 37
Tensile Stress (Yield)	4.10	MPa	ISO 37
Tensile Elongation (Break)	610	%	ISO 37
Tear Strength <sup>1</sup>	18	kN/m	ISO 34-1
Compression Set (70°C, 22 hr)	33	%	ISO 815
Additional Information	Nominal Value	Unit	Test Method
M-S Flow	0.490	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		

1. Method Ba, Angle (Unnicked)

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