

# Evoprene™ Super G 949

Styrene Ethylene Butylene Styrene Block Copolymer

AlphaGary

Message:

Evoprene™ Super G compounds are high performance SEBS-based TPE materials. They are formulated with a special resin modifier which increases the size of the end blocks. They are also compounded in a special way to ensure maximum dispersion of the various ingredients. The larger end blocks increase the glass transition temperature (Tg) providing two major practical advantages over regular SEBS-based compounds: improved heat resistance and improved recovery properties. The improved heat resistance raises the service temperature over regular SEBS-based grades by 10-15 deg C (18-25 deg F) and improves injection moulding cycle times by allowing the parts to be demoulded at a higher temperature without distortion. The improved recovery properties, as measured by compression set, provide much better sealing characteristics as explained overleaf. These compounds do need higher processing temperatures for best results.

General Information			
Features	Block Copolymer		
	Bondability		
	Ethylene Oxide Sterilizable		
	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Heat Aging Resistance		
	Low Compression Set		
	Radiation Sterilizable		
	Steam Sterilizable		
Uses	Medical Devices		
	Non-specific Food Applications		
	Toys		
Agency Ratings	EU Food Contact, Unspecified Rating		
	FDA Food Contact, Unspecified Rating		
RoHS Compliance	Contact Manufacturer		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Coextrusion		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm³	ISO 2781
Molding Shrinkage	1.2 to 3.5	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	54		ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	2.50	MPa	ISO 37
Tensile Stress (Yield)	7.70	MPa	ISO 37
Tensile Elongation (Break)	580	%	ISO 37
Tear Strength <sup>1</sup>	24	kN/m	ISO 34-1
Compression Set			ISO 815
22°C, 72 hr	14	%	
70°C, 22 hr	21	%	
100°C, 22 hr	33	%	
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	200 to 220	°C	
Middle Temperature	200 to 220	°C	
Front Temperature	200 to 220	°C	
Nozzle Temperature	200 to 220	°C	
Processing (Melt) Temp	280	°C	
Mold Temperature	40.0 to 60.0	°C	
Injection Rate	Moderate		
Vent Depth	0.020 to 0.050	mm	
NOTE			

1. Method Ba, Angle (Unnicked)

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#### Recommended distributors for this material

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