Evoprene™ Super G 947

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	1.08	g/cm³	ISO 2781
Molding Shrinkage	1.2 to 3.5	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	36		ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	1.10	MPa	ISO 37
Tensile Stress (Yield)	5.50	MPa	ISO 37
Tensile Elongation (Break)	390	%	ISO 37
Tear Strength [1]	18	kN/m	ISO 34-1
Compression Set			ISO 815
22°C, 72 hr	12	%	
70°C, 22 hr	23	%	
100°C, 22 hr	34	%	

Additional Information	Nominal Value	Unit	Test Method
M-S Flow	1.86	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)

Recommended distributors for this material

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