

AlphaGary Evoprene™ G 975 SEBS Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Styrenic TPE

Material Notes:

Evoprene™ G compounds are styrene – ethylene butylene – styrene base thermoplastic elastomer with related hydrogenated block copolymers. These polymers are fully saturated so the resistance to oxidation, ozone and general outdoor weathering is excellent. Processing: compatible with polypropylene for co-molding or co-extrusion Can be used in food contact applications with the appropriate stabilizer package

Order this product through the following link:

http://www.lookpolymers.com/polymer_AlphaGary-Evoprene-G-975-SEBS-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ISO 2782
Viscosity Measurement	9.0 @Temperature 180 °C	9.0 @Temperature 356 °F	Kg/cm ² ; Macklow-Smith extrusion rheometer

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	ISO 868
Tensile Strength	13.4 MPa	1940 psi	ISO 37
Elongation at Break	560 %	560 %	ISO 37
100% Modulus	0.00300 GPa	0.435 ksi	ISO 37
Tear Strength	45.0 kN/m	257 pli	ISO 34-B
Compression Set	41 % @Temperature 22.0 °C, Time 259000 sec	41 % @Temperature 71.6 °F, Time 72.0 hour	ISO 815
	49 % @Temperature 70.0 °C, Time 79200 sec	49 % @Temperature 158 °F, Time 22.0 hour	ISO 815
	70 % @Temperature 100 °C, Time 79200 sec	70 % @Temperature 212 °F, Time 22.0 hour	ISO 815

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	110 - 120 °C	230 - 248 °F	
Minimum Service Temperature, Air	-60.0 - -40.0 °C	-76.0 - -40.0 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Dielectric Strength	24.0 - 28.0 kV/mm	610 - 711 kV/in	

Descriptive Properties	Value	Comments
Bonds with	Polypropylene	
Chemical Resistance	Acetone	Moderate/Good
	Acids up to 80%	Excellent
	Alcohol	Excellent
	Alkalis	Excellent
	Brake fluid	Good
	Chlorinate solvents	Poor
	Diesel	Poor
	Ethylene glycol	Excellent
	Gasoline	Poor
	Salt solution	Excellent
	Soda lye	Excellent
	Water, 23°C	Excellent
	Water, 95°C	Good
Transparency	Opaque	

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