

AlphaGary Evoprene™ 042 Standard SBS Thermoplastic Elastomer Compound

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

Material Notes:

The Evoprene™ Standard is a styrene-butadiene -styrene based thermoplastic elastomer. Applications: extruded door, window and furniture seals and rubbing strips, mats, bump stops, grommets, coat hanger pads, toy components

Order this product through the following link:

http://www.lookpolymers.com/polymer_AlphaGary-Evoprene-042-Standard-SBS-Thermoplastic-Elastomer-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ISO 2782
Viscosity Measurement	38 @Temperature 150 °C	38 @Temperature 302 °F	Kg/cm ² ; Macklow-Smith extrusion rheometer

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	ISO 868
Tensile Strength	7.20 MPa	1040 psi	ISO 37
Elongation at Break	390 %	390 %	ISO 37
100% Modulus	0.00460 GPa	0.667 ksi	ISO 37
Tear Strength	40.0 kN/m	228 pli	ISO 34-B
Compression Set	28 % @Temperature 22.0 °C, Time 259000 sec	28 % @Temperature 71.6 °F, Time 72.0 hour	ISO 815

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	55.0 - 60.0 °C	131 - 140 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Descriptive Properties	Value	Comments
Bonds with	Polystyrene	
Chemical Resistance	Acetone	Moderate
	Acids up to 80%	Moderate
	Alcohol	Good
	Alkalis	Good

Descriptive Properties	Value fluid	Comments
	Chlorinate solvents	Poor
	Diesel	Poor
	Ethylene glycol	Excellent
	Gasoline	Poor
	Salt solution	Good
	Soda lye	Moderate
	Water, 23°C	Good
	Water, 95°C	Poor
Ozone Resistance	Fail - Crack	100 pphm / 200 hrs / 20% strain
Transparency	Opaque	

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