

AlphaGary Evoprene™ LF 6151 Automotive Thermoplastic Elastomer

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

Material Notes:

Evoprene™ LF is a hydrogenated styrene block copolymer based thermoplastic elastomer created for the automotive industry. It is specially formulated to have very low fogging characteristics suitable for automotive interior applications. Processing: can be injection molded or extruded on standard thermoplastics equipment Applications: trinket mats, handbrake grips and gear knobs, pillar trim skins, vent wheels, seat belt scabbards & other seating components, armrest skins, bump stops Formulated to meet the requirements of automotive Reflectance Fogging test according to SAE J1756

Order this product through the following link:

http://www.lookpolymers.com/polymer_AlphaGary-Evoprene-LF-6151-Automotive-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.890 g/cc	0.890 g/cc	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	47	47	ISO 868, 15 sec
Tensile Strength	3.90 MPa	566 psi	500 mm/min, measured parallel to flow; ISO 37
Elongation at Break	345 %	345 %	500 mm/min, measured parallel to flow; ISO 37
100% Modulus	0.00230 GPa	0.334 ksi	500 mm/min, measured parallel to flow; ISO 37
Tear Strength	20.0 kN/m	114 pli	Parallel to flow; ISO 34-B
	31.0 kN/m	177 pli	Perpendicular to flow; ISO 34-B
Compression Set	13 %	13 %	ISO 815
	@Temperature 23.0 °C, Time 259000 sec	@Temperature 73.4 °F, Time 72.0 hour	
Tensile Set	30 %	30 %	ISO 815
	@Temperature 70.0 °C, Time 86400 sec	@Temperature 158 °F, Time 24.0 hour	
Tensile Set	47 %	47 %	VDA 675 217B
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	165 °C	329 °F	no distortion
	@Time 10800 sec	@Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Flame Spread	43 mm/min	1.7 in/min	burn rate

Descriptive Properties	Value	Comments
Fogging, Reflectance %	SAE J 1756	
Odor rating	2	SAE J1351 / FLTM B0131-01 (dry)
Ozone Resistance	0	100 pphm / 200 hrs / 20% strain

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