

AlphaGary Evoprene™ LF 6160 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-6160-Automotive-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ISO 868, 15 sec
Tensile Strength	17.6 MPa	2550 psi	500 mm/min, measured parallel to flow; ISO 37
Elongation at Break	390 %	390 %	500 mm/min, measured parallel to flow; ISO 37
100% Modulus	0.0135 GPa	1.96 ksi	500 mm/min, measured parallel to flow; ISO 37
Tear Strength	81.0 kN/m	462 pli	Parallel to flow; ISO 34-B
	104 kN/m	593 pli	Perpendicular to flow; ISO 34-B
Tensile Set	95 %	95 %	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	
Brittleness Temperature	-21.0 °C	-5.80 °F	ASTM D 746
Flame Spread	51 mm/min	2.0 in/min	burn rate

Descriptive Properties	Value	Comments
Fogging, Reflectance %	SAE J 1756	

Descriptive Properties	Value	Comments / <i>FLTM B0131-01 (dry)</i>
Ozone Resistance	0	100 pphm / 200 hrs / 20% strain

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