

Saint-Gobain Korel® K60 Firm Micro-cellular Polyurethane Foam

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane Foam, Unreinforced

Material Notes:

Description: The Korel® series micro-cellular polyurethane foams are offered in a broad range of properties, making them ideal for a variety of gasketing and energy absorption needs. Korel® microcellular foams are categorized by degree of deflection force. By varying the modulus and density, Saint Gobain Performance Plastics has developed this series of materials that meets the demands of design engineers today. All Korel fians are available with an aggressive acrylic adhesive on one side to facilitate placement. Korel K60 series is very firm, high-deflection urethane foam. This series offers very tight tolerance for gauge control. Its high internal strength resists tearing and deformation.
FEATURES/BENEFITS:Excellent compression set resistanceHighly resilient (will not collapse)Dissipates stressesResistant to moisture and most chemicalsConformable and flexible even in extreme environmental conditionsEasy to achieve intricate die-cut partsAggressive acrylic adhesive (optional) facilitates assemblyAvailable cast on to polyester film for stability and low deformation
Typical Applications: Cellular telephones, electrical enclosures, electronic gasketing, vibration damping, cushioning, acoustical control, bumpers, instrument panels, spacers.
Specification Notes: UL Testing (JMST2) UL 50 and UL 508 File MH26338; Passes Fogging Test SAE-J 1756, 3 hrs. at 212°F (100°C). All data based on a 0.012 inch test sample. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Korel-K60-Firm-Micro-cellular-Polyurethane-Foam.php

Physical Properties	Metric	English	Comments
Density	0.637 g/cc	0.0230 lb/in ³	ASTM D1667

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2.00 MPa	290 psi	ASTM D3574
Elongation at Break	300 %	300 %	ASTM D3574
Tensile Modulus	0.00110 GPa	0.160 ksi	ASTM D3574
Compressive Strength	0.241 MPa	35.0 psi	Compression Deflection, Value given for 12.7 mm/min, 25% deflection.; ASTM D3574 Test C
Compressive Modulus	0.000552 GPa	0.0800 ksi	Force to Compress, Value given for 25% compression; ASTM D1667
Tear Strength	6.14 kN/m	35.0 pli	Initial Tear Strength; ASTM D624 Die C
Compression Set	<= 3.0 %	<= 3.0 %	Constant Deflection at 73°F; ASTM D 3574 Test D
	<= 7.0 %	<= 7.0 %	Constant Deflection; ASTM D 3574 Test D
	@Temperature 70.0 °C	@Temperature 158 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0865 W/m-K	0.600 BTU-in/hr-ft ² -°F	ASTM E1530

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	Intermittent

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+12 ohm-cm	1.30e+12 ohm-cm	
Surface Resistivity per Square	2.30e+13 ohm	2.30e+13 ohm	
Dielectric Strength	1.97 kV/mm	50.0 kV/in	ASTM D149

Descriptive Properties	Value	Comments
Standard Color	Black	

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