Saint-Gobain Korel® K20 Very Soft 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 K20 foams are very soft and highly conformable, with a very low force to deflect. Korel K20 is recommended for closure of irregular surfaces or flexible materials.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 deformationTypical 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. All data based on a 0.14 inch test sample.(Available in multiple thicknesses.) Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Korel-K20-Very-Soft-Micro-cellular-Polyurethane-Foam.php

Physical Properties	Metric	English	Comments
Density	0.332 g/cc	0.0120 lb/in³	ASTM D1667
Water Absorption	13 %	13 %	% by weight; ASTM D3574
Mechanical Properties	Metric	English	Comments
Hardness, Shore O	7.0	7.0	ASTM D2240
Tensile Strength, Yield	0.241 MPa	35.0 psi	ASTM D3574
Elongation at Break	250 %	250 %	ASTM D3574
Tensile Modulus	0.000138 GPa	0.0200 ksi	ASTM D3574
Compressive Strength	0.0207 MPa	3.00 psi	Compression Deflection, Value given for 12.7 mm/min, 25% deflection.; ASTM D3574 Test C
Compressive Modulus	0.0000276 GPa	0.00400 ksi	Force to Compress, Value given for 25% compression; ASTM D1667
Tear Strength	1.93 kN/m	11.0 pli	Initial Tear Strength; ASTM D624 Die C
Compression Set	<= 2.0 %	<= 2.0 %	Constant Deflection at 73°F; ASTM D 3574 Test D
	<= 10 %	<= 10 %	Constant Deflection; ASTM D 3574
	@Temperature 70.0		Test D

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Mechanical Properties	°C Metric	@Temperature 158 ŰF English	Comments
Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0865 W/m-K	0.600 BTU-in/hr-ft²- °F	ASTM E1530
Maximum Service Temperature, Air	70.0 °C	158 °F	Constant use
	121 °C	250 °F	Intermittent

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.90e+11 ohm-cm	2.90e+11 ohm-cm	
Surface Resistivity per Square	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Strength	2.09 kV/mm	53.0 kV/in	ASTM D149

Descriptive Properties	Value	Comments
Standard Color	Black	

Contact Songhan Plastic Technology Co.,Ltd.

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