

K40 SERIES

Medium firmness, Micro-Cellular Polyurethane Foam

Saint-Gobain® Norseal® K40 series is a medium deflection urethane foam with minimal compression set and low out-gassing that exceeds fogging requirements. Ideal for controlling unwanted energy. These special formulations protect sensitive components by damping shock, dissipating motion, isolating vibration, and absorbing impact energy.

The **Norseal** K40 series is specially designed to provide the following features:

- Excellent compression set-resistance
- Highly resilient (will not collapse)
- Dissipates stresses
- Resistant to moisture and most chemicals
- Conformable and flexible even in extreme environmental conditions
- Easy to achieve intricate die-cut parts
- Aggressive acrylic adhesive (optional) facilitates assembly

Available Sizes

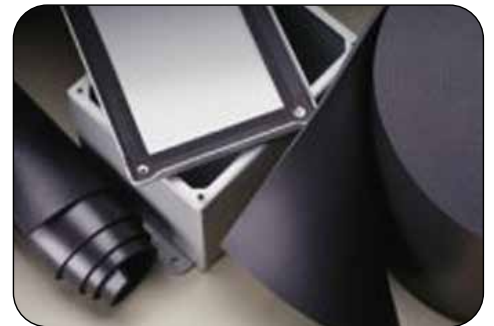
Standard thickness: .063, .093, .125, .188 and .25 in. (1.6, 2.4, 3.2, 4.8 and 6.4 mm)

Master roll size: 54 in. (1371 mm) width.
Length varies with thickness.

Color: Black

Other Micro-Cellular urethane Foams

Saint-Gobain has developed a full line of micro-cellular foams. By varying the modulus and density, we have created a broad product group that is categorized by degree of deflection force.



APPLICATIONS

- Electrical enclosures
- Automotive Instrument panels
- Electronic gasketing
- Cellphones
- Appliance/Office Equipment
- Foot Pads
- Vibration damping
- Cushioning
- Acoustical control
- Spacers

Norseal K40 Series — Properties

(Formerly known as Korel)

Performance tests are run using standard test procedures. The values presented are typical values and should not be used for specification purposes.

Property	Test Method	Value
Physical		
Density, lb/ft ³ (kg/m ³)	ASTM D3574	20 (320)
Thickness, inches (mm)	-	.063, .093, .125, .188, .250 (1.6, 2.4, 3.2, 4.8, 6.4)
Standard Color	-	Black
Compression Set, %: @ 73°F (23°C) @158°F (70°C)	ASTM D3574 Test D	< 2 < 7
Compression Force Deflection, psi (kPa) 12.7 mm/min @ 25% Deflection	ASTM D3574 Test C	10 (69)
Force to Compress @ 25%, psi (kPa)	ASTM D1667	18 (124)
Hardness, Durometer	Shore "O"	53
Tear Strength, pli (kN/m)	ASTM D624 Die C	26 (4.6)
Tensile Elongation, %	ASTM D3574	380
Tensile Strength, psi (kPa)	ASTM D3574	198 (1363)
Modulus psi (kPa)	ASTM D3574	85 (587)

Thermal

Temperature Resistance Recommended Constant Use, max Recommended Intermittent Use, max		158°F (70°C) 250°F (121°C)
Thermal Conductivity, BTU-in/hr-sq ft°F (W/m-C)	ASTM E1530	0.6 (0.086)

Environmental

Fogging	SAE-J 1756, 3 hrs. @ 212°F (100°C)	Pass
Outgassing: TML % CVCM % WVR %	ASTM E595, 24 hr. @ 257	1.18 0.25 -
Water Absorption, % wt. gain	AMS 3568-95	10

Electrical

Surface Resistivity, ohm/sq	ASTM D257	1.5 × 10 ¹³
Volume Resistivity, ohm.cm	ASTM D257	3.2 × 10 ¹⁴
Dielectric Strength, volts/mil	ASTM D149	47

Norseal K40 — Standard Roll Sizes

Product No.	Thickness in. (mm)	Length ft. (m)
K40-063	.063 (1.5)	200 (61)
K40-093	.093 (2.4)	100 (30.5)
K40-125	.125 (3.2)	100 (30.5)
K40-188	.188 (4.8)	50 (15.3)
K40-250	.25 (6.4)	50 (15.3)

Options (subject to minimum order requirements)

Acrylic Pressure sensitive adhesive (PSA) available on 1 side as option.

Important Instructions

Because **Saint-Gobain** cannot anticipate or control every potential application, we strongly recommend testing of this product under individual application conditions prior to commercial use.

Recommended service temperature is between -40 to 158°F (-40 to 70°C).

For PSA Option, surfaces must be clean and free of oil, grease, moisture, dust and dirt. Isopropyl alcohol is good for cleaning the surface. Do not remove liner until tape is in proper position. Avoid touching adhesive surface before application.

Shelf Life

12 months after the date of sale when stored in original packaging at temperatures up to 70°F (21°C) and 50% relative humidity.

IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain products for all intended uses and that the materials to be used comply with all applicable regulatory requirements. Saint-Gobain assumes no responsibility for any product failures that occur due to misuse of the materials it provides arising out of the design, fabrication or application of the products into which the materials are incorporated.

WARRANTY: For a period of 6 months, Saint-Gobain warrants this product(s) to be free from defects in manufacturing. The only obligation under any applicable product warranty will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. SAINT-GOBAIN DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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