TBP Converting, Inc.
Saint Gobain K10/K20/K30 PDS

TBP Converting, Inc. 400 Thoms Drive Suite 411, Phoenixville, PA 19460 Toll: 800-850-3338 Fax: 610-933-4710
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K10/K20/K30 THIN SUPPORTED

Engineered for High Performance Gasketing Applications

Gasketing – **Norseal**® PUR has excellent resistance to compression set and high resiliency that ensures the seal will not break down over extended use, making it a preferred choice for gasketing applications.

Control of Unwanted Energy – The **Norseal** PUR line of cushioning foam is ideal for controlling unwanted energy. These special formulations protect sensitive components by damping shock, dissipating motion, isolating vibration, and absorbing impact energy.

Norseal K Series Micro-cellular Polyurethane Foam

The **Norseal** 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. Ideal for seals around LCD and hand held devices.

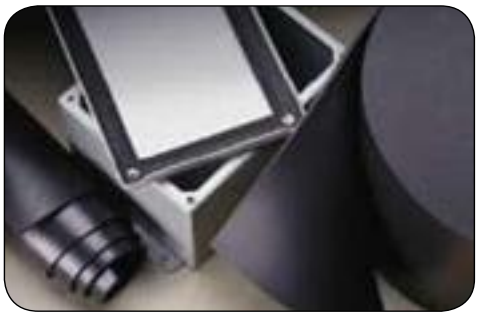
Norseal micro-cellular foams are categorized by degree of deflection force. By varying the modulus and density, **Saint-Gobain**® has developed this series of materials that meets the demands of design engineers today.

K10-SS is super low deflection force foam in non-support configuration. This unique concept allows for additional compression covering a wider compression range. The foam also exhibits a high surface energy. This enhance the sealability with a self-stick feature. Making the product idea for LCD gasket application in hand-held devices.

K10-MD is low deflection force foam processed on PET film, ideal for seals and gasket that need high compression rate and low deflection force. The foam is available with a dry surface for ease in processing and assembly.

K20-MD is middle deflection force foam processed on PET film, idea for seals and gasket that need high compression rate and medium deflection force. The foam is available with a dry surface for ease in processing and assembly.

K30-MD is high deflection grade with very thin thickness. Provide certain level deflection to the assembly. Processed on PET liner with good dimension stability. Ideal for seals and gasket that need high deflection and thin gauge.



APPLICATIONS

- Cellular telephones
- Electrical enclosures
- Electronic gasketing
- Vibration damping
- Cushioning
- Acoustical control
- Bumpers
- Instrument panels
- Spacers

Features/Benefits

- 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 cast on to polyester film for stability and low deformation

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Norseal K10/K20/K30 – Typical Properties

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

Physical	Test Method	K10-SS	K10-MD*	K20-MD*	K30-MD*
Density lb./cu. ft. (kg/m³)	ASTM D3574	14 (235)	14 (235)	21 (340)	46 (750) (0.3mm)
CFD, psi (kPa) 12.7mm/min @ 25% Deflection	GB/T 20467 -2006	1.6 (11)	2.0 (14)	5.8 (40)	90 (622)
FTC psi (kPa) @ 25% Deflection	GB/T 20467 -2006	2.1 (15)	2.7 (19)	9.3 (64)	117 (806)
Compression Set % @ 73°F (23°C) @ 158°F (70°C)	ASTM D3574 Test D	< 3 < 5			
Constant Use, Max		158°F (70°C)			
Intermittent Use, Max		250°F (121°C)			
Thermal Conductivity BTU– in/hr-sqft°F (W/m- C)	ASTM E1530	0.6 (0.086)			
Surface Resistivity ohm/sq	ASTM D257	3×10^{15}			
Volume Resistivity ohm.cm	ASTM D257	4×10^{14}			
Dielectric Ste volts/mil	ASTM D149	47			
Fogging	SAE-J 1756 3 hrs@100 °C	Pass			

* FTC and CFD is tested with supported PET.

Norseal K10/K20/K30 – Standard Roll Size

Item	Color	T (mm)	W (mm)	L (m)
K10-0.5mm	Black	0.5	680	100
K10-0.8mm		0.8	680	50
K10-1.0mm		1.0	680	50
K10-1.3mm		1.3	680	50
K10-1.5mm		1.5	680	50
K20-0.4mm		0.4	508	100
K20-0.5mm		0.5	508	100
K20-0.7mm		0.7	508	50
K20-0.8mm		0.8	508	50
K20-1.0mm		1.0	508	50
K20-1.3mm		1.3	508	50
K20-1.5mm		1.5	508	50
K20-2.0mm		2.0	508	40
K30-0.2mm		0.2	680	100
K30-0.3mm		0.3	508	100

Above are standard items, specific need has MOQ.

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.

Parameter values are not guaranteed and will differ from lot to lot. For specification writing, please contact local **Saint-Gobain** Technical Service Department.

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.

SAINT-GOBAIN

Saint-Gobain Tape Solutions

North America | South America | Europe | Asia

For a full list of locations, please visit tapesolutions.saint-gobain.com/contact-us

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