

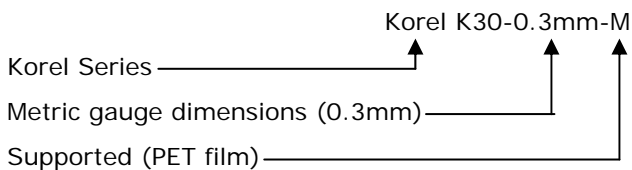
KOREL® K30 Thin/Soft Series



KOREL® - Thin / Soft

KOREL® K30 Series micro-cellular urethane foams now include thin gauge formulations. The new products are available in 0.3mm thickness. These very soft conformable foams maintain excellent compression set resistance even under elevated temperatures. The more conformable foam allows for improved sealability on parts with variable dimensions and will absorb thermal expansion/contraction movement. These products are offered on PET liner for stability and aid in die-cutting.

To reflect the industry trend, these products are provided in metric gauges.



For the complete standard KOREL Series, K20 - K60 in US thickness, please refer to the KOREL 4-Page brochure.

Thin Gauge, Very Soft, Low Deflection, Conformable Micro-Cellular Urethane Foam with excellent Compression Set Resistance

Features / Benefits

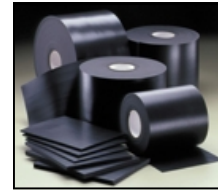
- Reduced force to compress - easier to assemble parts, and less stress on components.
- Conformable foam - maintains a seal on parts with variable dimensions, and absorbs expansion contraction movement.
- Excellent compression set resistance.
- Resistant to moisture and most chemicals.
- Available cast onto polyester film for stability.
- Available with adhesive on one side.

Typical Applications

- LCD gaskets.
- Lens and cover seals.
- Casing / housing seals.
- Speaker and sound management gaskets.

KOREL® K30 Thin/Soft Series

Properties	Test Method	KOREL K30
PHYSICAL		
Density, kg/m ³ (lb/ft ²)	ASTM D3574	560 (35)
Thickness, mm (inches)		0.3 (.012)
Standard color		Black
Compression set, % 50% 73°F (23°C) 50% 158°F (70°C)	ASTM D3574 Test D	< 5 < 20
Compression force deflection, kPa (psi) 12.7mm / min @ 25% - 1 min. dwell	ASTM D3574 Test C	69 (10)
Force to compress kPa (psi) 12.7mm / min @ 25% instantaneous	ASTM D3574 Test C	103 (15)
THERMAL		
Recommended constant use, max.		70°C (158°F)
Recommended intermittent use, max.		121°C (250°F)
Storage temperature	100°C for 1000 hrs	Pass
Thermal conductivity, W/m-C (BTU-in/hr-sq ft-F)	ASTM E1530	0.086 (0.6)
ENVIRONMENTAL		
Fogging	SAE-J 1756 3 hrs @ 100°C (212°F)	Pass
Outgassing TML % CVCM % WVR %	ASTM E595 24 hr @ 110°C (257°F)	1.06 0.25 0.14
ELECTRICAL		
Surface resistivity, oms/sq	ASTM D257	3 x 10 ¹⁵
Volume resistivity, ohm cm	ASTM D257	4 x 10 ¹⁴
Dielectric strength, volts/mil	ASTM D149	47



Saint-Gobain Performance Plastics flexible manufacturing allows Korel to be offered with a number of options :

Polyester - 2mil thick polyester (PET) film is available as a permanent integral part of the foam. The polyester allows for ease in handling and elimination of stretch (standard).

Paper - white 55 lb. coated two sides for easy release (optional for all).

Adhesives - Advanced adhesive technology from Saint-Gobain Performance Plastics is now applied to all Korel products. These durable, pressure-sensitive acrylic adhesives provide an aggressive, long-lasting bond to almost any substrate. All are available with an easy-to-release paper liner.

Non-standard products (optional - liners, adhesive, or color) can be produced by special order. Minimum and extended lead times may apply.

Saint-Gobain Performance Plastics is part of an international family of companies comprising Compagnie de Saint-Gobain, a global force in engineered materials. Conforming to the world's most demanding quality standards - including QS9000 and ISO9001/9002 - Saint-Gobain provides products and services of the highest and most consistent quality available.

KOREL® is a registered trademark



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