

# Korel® Series

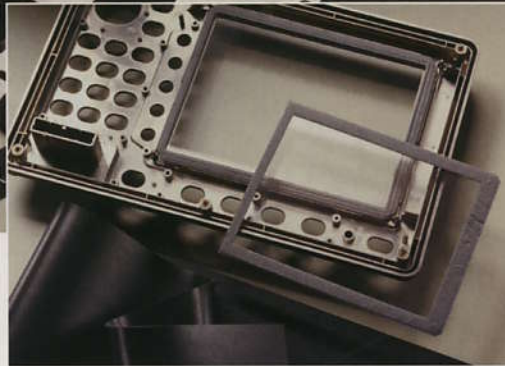
## Engineered for High Performance Gasketing Applications

### 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

### Typical Applications

- Cellular Telephones
- Electrical Enclosures
- Electronic Gasketing
- Vibration Damping
- Cushioning
- Acoustical Control
- Bumpers
- Instrument Panels
- Spacers



**Gasketing** – Korel 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 Korel 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.

## Korel® Series Micro-cellular Polyurethane Foam

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 micro-cellular 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 foams 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.

**Korel K30** foams are soft, conformable, low deflection, urethane foams offering excellent compression set resistance and low out-gassing that exceeds fogging requirements. K30 is ideal for open/close applications.

**Korel K40** series is a medium deflection urethane foam with minimal compression set. As with the K30, this series also offers low out-gassing and exceeds fogging requirements.

**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.



## Korel Series Liner Options

Korel Series		K20		K30				K40			K60
Deflection Range		Very Soft		Soft				Medium			Very Firm
Comp. Force Deflect. CFD (psi)		1-5		3-9				5-15			>30
Density (lb/cu ft)		20		15	20	25	20	30	35	40	
Gauge in.      mm		Availability of Gauge and Type of Liner/Film									
.012	.3									paper	
.015	.38								PET film		
.020	.51							PET film			
.030	.76							PET film			
.035	.89					PET film					
.045	1.14					PET film					
.063	1.6	paper				PET film	liner-less				
.080	2.0	paper									
.093	2.4	paper					liner-less				
.125	3.18	paper			paper		liner-less				
.140	3.56	paper									
.188	4.78	paper	liner-less				liner-less				
.250	6.35	paper	liner-less				liner-less				
.375	9.53	paper	liner-less								
.500	12.7	paper	liner-less								

Standard product offering, minimums may apply for options.

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

**Paper** – white 55 lb. coated two sides for easy release (optional).

**Liner-less** – offers a top coating on one side of the foam to eliminate blocking and improves bond of adhesive when applied to the foam. With the liner removed – foam has relaxed and die-cut parts remain consistent in dimensions (available only as noted on the Korel chart).

**Polyester** – 2 mil 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 (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.

Korel® is a registered trademark.

*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.*



### PERFORMANCE PLASTICS

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