



# PRODUCT NEWS

**Auburn Manufacturing Co.**

29 Stack St., Middletown, CT 06457

Phone (860) 346-6677 FAX (860) 346-1334

[www.auburn-mfg.com](http://www.auburn-mfg.com)

email:[info@auburn-mfg.com](mailto:info@auburn-mfg.com)

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## NEW PRODUCT ANNOUNCEMENT

### FORMEX™ GK-5BK

AUBURN is pleased to announce the introduction of Formex™ **GK-5BK**, a nominal 0.005" (0.125 mm) thick electrical insulation material.

Formex™ **GK-5BK** is UL 94 VTM-0 rated - the "V-0" rating for "thin material". Formex™ **GK-5BK** has a dielectric breakdown of over 13Kv, dielectric strength of over 2600 volts/mil, a printable surface, and is easily diecut, including rotary. This material is extremely versatile with a UL Relative Thermal Index (RTI) of 115" C.

Arc track resistance rating for the material in the High Voltage Track Rate (HVTR) and Comparative track resistance (CTI) is at the top of the performance scale having received a UL Performance Level Classification of "Ow, the highest available. The High Amperage Arc Ignition (HAI) rating is at the ultimate indicated on the UL "Yellow" Recognition card showing no ignition after exposure to over 200 arcs on the material's surface.

Formex™ **GK-5BK** readily replaces both polyester and polycarbonate films in most applications. Because of its superior properties it can replace thicker "fishpaper" and vulcanized fibre. **Formex™ GK-5BK** can be laminated, using acrylic adhesive, for labels, EMI/RFI shielding and many other applications. Features include:

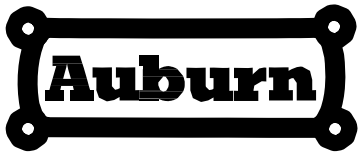
- ◆ Flame Class - UL 94VTM-0 and CSA O.6VTM-0
- ◆ Non-Hygroscopic - Absorbs <0.1% moisture
- ◆ Dielectric Breakdown - > 13,000 volts

Product Data and a sample are enclosed. Fax, phone or e-mail us for additional information, complete literature pack, Design Guide or prototype size samples at:

Telephone: (860) 346-6677

Fax: (860) 346-1334

e-mail: [info@auburn-mfg.com](mailto:info@auburn-mfg.com)



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## JUST RELEASED: NEW FORMEX™ GK-5BK IMPACT MODIFIED FLAME RETARDANT POLYPROPYLENE SHEET

### OFFERS IMPROVED RELATIVE TEMPERATURE INDEX TO TRADITIONAL FORMEX™

	TEST METHOD	GK-5BK
<b><u>MECHANICAL PROPERTIES</u></b>		
COLOR		BLACK
THICKNESS-INCH		.005
TOLERANCE-INCH		+ .001/- .001
TENSILE YIELD-PSI	ASTM D-882	
MACHINE DIRECTION		4400
TRANSVERSE DIRECTION		3200
<b><u>PHYSICAL PROPERTIES</u></b>		
DENSITY GM/CC	ASTM D-792	1.035
F-AMMA8 LITY	UL-94	VTM-O
OXYGEN INDEX	ASTM D-2863	29
WATER ABSORPTION-CHG IN WEIGHT	ASTM D-570	0.06%
HEAT DEFLECTION TEMP AT 66 PSI		121°C/250°F
RELATIVE TEMPERATURE INDEX		
ELECTRICAL		
MECHANICAL W/ & W/O IMPACT		115°C/239°F
SURFACE ENERGY - DYNES/CM (AS PRODUCED)	ASTM D-2578	> 50 outside only
<b><u>ELECTRICAL PROPERTIES</u></b>		
DIELECTRIC STRENGTH-VOLTS/MIL	ASTM D-149	2625
DIELECTRIC BREAKDOWN-VOLTS	ASTM D-149	13,125
VOLUME RESISTIVITY-OHM-CM	ASTM D-257	3.97X10 <sup>15</sup>
DIELECTRIC CONSTANT	ASTM D-150	2.30
DISSIPATION FACTOR	ASTM D-150	0.0019
HIGH CURRENT ARC IGNITION	UL 746A	200+
HIGH VOLTAGE ARC TRACKING-INDEX	UL 746A	0.0
HOT WIRE IGNITION-SEC	UL 746A	9+
COMP. TRACKING INDEX-VOLTS	ASTM D-3638	600+

THE ABOVE DATA IS BELIEVED TO BE ACCURATE AND RELIABLE. AUBURN ASSUMES NO RESPONSIBILITY FOR END USE APPLICATIONS AND NO PERFORMANCE WARRANTY IS EXPRESSED OR IMPLIED.

UL FILE #E121855(N) CSA FILE #LS96638

**FOR MORE INFORMATION CALL AUBURN TOLL FREE  
1-800-GAS-KETS . . . . .**

**THE AUBURN MANUFACTURING COMPANY**

29 STACK STREET, MIDDLETOWN, CT 06457 TEL: (860) 346-6677 FAX: (860) 346-1334