



EverForm EVFMGK Insulation Material Manufacturing Specifications

	EVFMGK-5	EVFMGK-10	EVFMGK-17
COLOR	BLACK	NATURAL & BLACK	NATURAL & BLACK
THICKNESS (IN)	0.005 ± 0.001	0.010 + 0.003/-0.0015	0.017 + 0.003/0.001
THICKNESS (MM)	0.127 ± .025	0.25 + 0.08/-0.04	0.43 + 0.08/-0.03
	EVFMGK-30	EVFMGK-40	EVFMGK-62
COLOR	NATURAL & BLACK	NATURAL & BLACK	NATURAL & BLACK
THICKNESS (IN)	0.030 ± .002	0.040 ± 0.002	0.062 ± 0.004
THICKNESS (MM)	0.76 ± 0.05	1.02 ± 0.05	1.57 ± 0.10

Notice: The above information is believed to be accurate and reliable. CR Technology assumes no responsibility for end use applications and no performance warranty is expressed or implied

Mechanical Properties

	TEST METHOD	EVFMGK-5	EVFMGK-10	EVFMGK-17	EVFMGK-30	EVFMGK-40	EVFMGK-62
TENSILE YIELD - PSI	ASTM D-882 / ISO 527-1,-2						
MACHINE DIRECTION		3,700	4,400	4,400	14,400	4,000	4,000
TRANSVERSE DIRECTION		3,000	3,200	3,200	3,200	3,700	3,700

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	TEST METHOD	EVFMGK-5	EVFMGK-10	EVFMGK-17	EVFMGK-30	EVFMGK-40	EVFMGK-62
COMPARATIVE TRACKING INDEX - VOLTS	IEC 60112	600	600	600	600	600	600
DIELECTRIC BREAKDOWN - VOLTS	ASTM D-149 / IEC 60243-1	11,000	16,264	20,292	29,610	33,380	41,558
DIELECTRIC STRENGTH - VOLTS/MIL	ASTM D-149 / IEC 60243-1	2,200	1,626	1,194	987	834	670
VOLUME RESISTIVITY - OHM-CM	ASTM D-257 / IEC 62631-3-1	3.97X1015	3.97X1015	3.97X1015	3.97X1015	3.97X1015	3.97X1015
DIELECTRIC CONSTANT	ASTM D-150 / IEC 60250, 1MHZ	1.9	1.9	1.9	1.9	1.9	1.9
DISSIPATION FACTOR	ASTM D-150 / IEC 60250, 1MHZ	0.0023	0.0023	0.0023	0.0023	0.0023	

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Physical Properties

	TEST METHOD	EVFMGK-5	EVFMGK-10	EVFMGK-17	EVFMGK-30	EVFMGK-40	EVFMGK-62
DENSITY - GM/CC	ASTM D-792 / ISO 1183-1, METHOD A	1.035	1.035	1.035	1.035	1.035	1.035
OXYGEN INDEX - %	ASTM D-2863 / ISO 4589--1,-2	29	29	29	29	29	29
WATER ABSORPTION - % CHANGE IN WEIGHT	ASTM D-570 / ISO 62, METHOD 4	0.06%	0.06%	0.06%	0.06%	0.06%	0.06%
HEAT DEFLECTION TEMPERATURE UNDERLOAD	ASTM D-648 0.45MPA / ISO 75-1,-2, METHOD B	121°C/250°F	121°C/250°F	121°C/250°F	121°C/250°F	121°C/250°F	121°C/250°F
SURFACE ENERGY - DYNES/CM (AS PRODUCED)	ASTM D-2578	≥50	≥50	≥50	≥50	≥50	≥50

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APPROVED FOR EXTREME CONDITIONS AND OUTDOOR APPLICATIONS

As a global standard solution, EverForm EVFMGK meets all critical flammability and environmental requirements in Europe, North America and Asia. This includes WEEE, RoHS and REACH. It was recently tested by Underwriters Laboratories (UL) for UV stability, water exposure and immersion. Following rigid UL 746C test protocol, UL granted EverForm EVFMGK black electrical insulation material its fl rating as a certified product for use in outdoor environments. This electrical insulation material is ideal for protecting the delicate components within LED lighting, IP security cameras, access control systems and digital signs—just to name a few.

Applications

- ✓ Product Features:
- ✓ Flammability Rating UL 94 VTM-0
- ✓ H₂O absorption <0.06%
- ✓ Temperature Rating 115°C / 239°F
- ✓ Dielectric strength 2,200 Volts/mil @ 0.005"



CR Technology, Inc

📍 55 Chase St
Methuen, Massachusetts 01844

✉ sales@crtechinc.com

☎ 978.681.5300