

Formex GK Electrical Insulation Material

Manufacturing Specification:

	TEST METHOD	GK-5	GK-10	GK-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

	TEST METHOD	GK-30	GK-40	GK-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

Mechanical Properties:

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

Physical Properties:

	TEST METHOD	GK-5	GK-10	GK-17	GK-30	GK-40	GK-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

Electrical Properties:

	TEST METHOD	GK-5	GK-10	GK-17	GK-30	GK-40	GK-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	3.97X10 ¹⁵	3.97X10 ¹⁵	3.97X10 ¹⁵	3.97X10 ¹⁵	3.97X10 ¹⁵	3.97X10 ¹⁵
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	0.0023

Packaging Information:

	TEST METHOD	GK-5	GK-10	GK-17	GK-30	GK-40	GK-62
STANDARD CONFIGURATION		ROLL	ROLL	ROLL	ROLL & SHEET	SHEET	SHEET
CORE ID - INCHES (MILLIMETERS)		6 (152)	6 (152)	6 (152)	6 (152)		
ROLL OD - INCHES (MILLIMETERS) (APPROXIMATE)		11 (289)	18 (457)	18 (457)	18 (457)		
ROLL WIDTH - INCHES (MILLIMETERS)		24 (610)	24 (610)	24 (610)	24 (610)		
ROLL WEIGHT - LBS (KGS) (APPROXIMATE)		57 (26)	198 (210)	178 (81)	192 (87)		
LENGTH/ROLL - FEET (METERS)		1,000 (304.8)	2,000 (609.6)	1,000 (304.8)	600 (182.9)		
AREA/ROLL - SQUARE FEET (SQUARE METERS)		2,000 (185.8)	4,000 (371.6)	2,000 (185.8)	1,200 (111.5)		
AREA/ROLL - SQUARE FEET (SQUARE METERS)					24 X 48 (610 X 1,219)	24 X 48 (610 X 1,219)	24 X 48 (610 X 1,219)

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