

FORMEX[®] GL PRODUCT DATA

FLAME RETARDANT POLYPROPYLENE SHEET

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	TEST METHOD	FORMEX [™] GL-10	FORMEX [™] GL-17
Color		Natural & Black	Natural & Black
MANUFACTURING SPECIFICATION			
Thickness			
inch		0.010 (+0.003/-0.0015)	0.017 (+0.003/-0.001)
millimeter		0.25 (+0.08/-0.04)	0.43 (+0.08/-0.03)
UL FLAMMABILITY RATING / PERFORMANCE LEVELS			
Flammability	UL 94	VTM-0	V-0
Relative Temperature Index	UL 746B		
Electrical		125°C/ 257°F	125°C/ 257°F
Mechanical Without Impact		115°C/ 239°F	115°C/ 239°F
High Current Arc Ignition - PLC	UL 746A	2	2
High Voltage Arc Tracking - PLC	UL 746A	0	0
Hot Wire Ignition - PLC	UL 746A	0	0
Comparative Tracking Index - PLC	ASTM D-3638	0	0
TYPICAL MECHANICAL PROPERTIES VALUES			
Tensile Yield - psi	ASTM D-882 / ISO 527-1,-2		
Machine Direction		5000	4300
Transverse Direction		2900	3100
TYPICAL PHYSICAL PROPERTIES VALUES			
Density - gm/cc	ASTM D-792 / ISO 1183-1, Method A	0.972	0.972
Oxygen Index - %	ASTM D-2863 / ISO 4589-1,-2	29	29
Water Absorption - % Change in weight	ASTM D-570 / ISO 62, Method 4	0.06%	0.06%
Heat Deflection Temperature at 66 psi	ASTM D-648 0.45MPa / ISO 75-1,-2,Method B	122°C/ 252°F	122°C/ 252°F
Surface Energy - dynes/cm (as produced)	ASTM D-2578	≥ 50	≥ 50
TYPICAL ELECTRICAL PROPERTIES VALUES			
Comparative Tracking Index - volts	IEC 60112	600	600
Dielectric Breakdown - volts	ASTM D-149 / IEC 60243-1	18,799	20,837
Dielectric Strength - volts/mil	ASTM D-149 / IEC 60243-1	1,880	1,226
Volume Resistivity - ohm-cm	ASTM D-257 / IEC 62631-3-1	1 x 10 ¹⁶	1 x 10 ¹⁶
Dielectric Constant	ASTM D-150 / IEC 60250, 1MHz	1.80	1.80
Dissipation Factor	ASTM D-150 / IEC 60250, 1MHz	0.0017	0.0017
PACKAGING INFORMATION			
Standard Configuration		Roll	Roll
Core ID - inches (millimeters)		6 (152)	6 (152)
Roll OD - inches (millimeters) (approximate)		18 (457)	18 (457)
Roll Width - inches (millimeters)		24 (610)	24 (610)
Roll Weight - lbs (kgs) (approximate)		192 (87)	172 (78)
Length/Roll - feet (meters)		2000 (609.6)	1000 (304.8)
Area/Roll - square feet (square meters)		4000 (371.6)	2000 (185.8)

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

