



Liberty Pultrusions - East

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Liberty Pultrusions - West

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Export Sales

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Pultruded Electrical Shapes

Technical Data



Property	Test Method	Direction	Unit	Typical Value
Electrical				
Electric Strength Time	ASTM D-149	Perpendicular	Volts/mil	200
(in oil)	ASTM D-149	Parallel	KV/in	35
Arc Resistance	ASTM D-495		Seconds	180
Track Resistance (Inclined Plane)	ASTM D-2303		Minutes	400
Comparative Tracking Index	ASTM D-3638		Volts	600
Mechanical Coupon				
Ultimate Tensile Strength	ASTM D-638	Longitudinal	PSI	25,000
	ASTM D-638	Transverse	PSI	10,000
Tensile Modulus	ASTM D-638	Longitudinal	PSI	1.3 x 10 ⁶
	ASTM D-638	Transverse	PSI	1.1 x 10 ⁶
Ultimate Compressive Strength	ASTM D-695	Longitudinal	PSI	30,000
	ASTM D-695	Transverse	PSI	15,000
Ultimate Flexural Strength	ASTM D-790	Longitudinal	PSI	30,000
At 130°C	ASTM D-790	Longitudinal	PSI	16,000
	ASTM D-790	Transverse	PSI	25,000
At 130°C	ASTM D-790	Transverse	PSI	12,000
Flexural Modulus	ASTM D-790	Longitudinal	PSI	1.2 x 10 ⁶
At 130°C	ASTM D-790	Longitudinal	PSI	0.7 x 10 ⁶
	ASTM D-790	Transverse	PSI	1.2 x 10 ⁶
At 130°C	ASTM D-790	Transverse	PSI	0.7 x 10 ⁶
Impact Strength – Izod	ASTM D-256	Longitudinal	Ft-lbs/in	10
	ASTM D-256	Transverse	Ft-lbs/in	10
Other				
Flame Class	UL-94			V-O
Water Absorption 24 Hours	ASTM D-570	Longitudinal	%	0.5
Density	ASTM D-792	Longitudinal	lbs/cu in	0.062
Color (Stock)				Red
Color (Others UL Listed)				White
				Black

Ordering Information

Standard Color: Red
Stocked Lengths: 10 ft +1/2 -0
Special lengths quoted on request

UL File Number: E55403

Polyglas G3 - Electrical Grade, Flame Retardant, Track Resistant