



G-10 Filament Wound

ASTM and U.L. Standards	Property	FW G-10 Value
D-638	Tensile strength	13, 000 PSI
D-348	Compressive strength - Shear strength	200, 000 PSI – 7,000 PSI
D-2593-75	Barcol hardness	50-70
D-1515-68	Density	.076 lbs/in
D-792	Specific gravity	2.08
D-570	Water absorption in 24 hours	0.01% maximum
D-150	Dielectric constant 60Hz	5.0 maximum
U.L. 746A	High current arc ignition on surface	39
D-495	High voltage arc surface	130 seconds
U.L. 746A	High voltage arc tracking - Hot wire ignition - U.L. flammability rating	0.0 in/min – 300+seconds – 94 HB
D-648	Heat distortion - Glass transition temperature	125 C
U.L 746B	Electrical temperature index - Mechanical temperature index	180 C – 190 C
D-149	Dielectric strength (perpendicular to axis)	5100VPM
D-150	Dissipation factor	.015 maximum

* Data is based on 75% E-Glass loading (60 degrees wind angles).
Most ASTM & UL standards are similar for our different resin systems.
The differences occur in ASTM-648, U.L. 746A & U.L. 746B.

Values are based on typical Test Methods and Conditions and published for Reference purposes only