

## Data Sheet for Mill-Max® High Temperature G-30 Polyimide/Glass Laminate used for machined insulators

NEMA GRADE		G-30
Military Specification		MIL-P-13949, Type GI
<b>General Physical Properties</b>		
Density		.07 lbs/in <sup>3</sup>
Specific Gravity		1.84
Rockwell Hardness (M Scale)		120 ±10
Moisture Absorption		0.35 %
Flexural Strength	(lengthwise) LW	78,000 psi
	(crosswise) CW	66,000 psi
Flexural Modulus	LW	3,200 kpsi
	CW	2,800 kpsi
Tensile Strength	LW	48,000 psi
	CW	40,000 psi
Compressive Strength		70,000 psi
Izod Impact Strength	LW	11.5 ft-lbs/in
	CW	7.5 ft-lbs/in
Bond Strength		1,500 lbs
Shear Strength		27,000 psi
<b>Thermal &amp; Electrical Properties</b>		
Maximum Continuous Operating Temperature		240 °C (464 °F)
Coefficient of Thermal Expansion	LW	10 ppm/°C
	CW	14 ppm/°C
Flammability		UL94V-1
Breakdown Voltage		65kV
Electrical Strength		850 V/mil
Dielectric Constant (permittivity) @ 1MHz		4.8
Dissipation Factor		0.010
Arc Resistance		130 sec.
Comparative Tracking Index		240
Glass Transition Temperature (Tg)		250 °C