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Acculam® Matrix HT™ G14

Technical Data Sheet

Typical Properties	Typical Value	Units
Physical Data		
Specific Gravity/Density	1.81	---
Water Absorption - .125"	< 0.60	%
Tg-DMA method - .125"	280° / 536°	°C / °F
Rockwell Hardness	117	M scale
Bond Strength	> 1,450 / 658	lbs / kgs
Flexural Strength 0.062" thick:		
• Lengthwise (LW) - condition Ambient	> 60,000 / 414	PSI / MPa
• Crosswise (CW) - condition Ambient	> 60,000 / 414	PSI / MPa
• LW & CW at 150°C/302°F x 1 hour	> 50,000 / 345	PSI / MPa
• LW & CW at 220°C/428°F x 1 hour	> 35,000 / 241	PSI / MPa
• LW & CW at 260°C/500°F x 1 hour	> 30,000 / 207	PSI / MPa
Izod Impact Strength - LW	> 17	ft.-lbs./in.
Izod Impact Strength - CW	> 14	ft.-lbs./in.
Compressive Strength - Flatwise	> 75,000 / 518	PSI / MPa
Shear Strength -A- .125"	> 20,000 / 138	PSI / MPa
Electrical Data		
Dielectric Breakdown - condition Ambient	> 65,000	volts
Dielectric Strength - Step by Step-.125"	> 450	VPM
Arc Resistance	> 180	seconds

Accurate provides this data as information only and does not imply any warranty for its use or application.

Product Description: A new thermoset composite comprised of woven fiberglass and a unique blend of high temperature resin binders developed for applications that demand superior performance over wide temperatures. It maintains a high percentage of mechanical & insulating properties up to 500°F. Matrix HT has outstanding flexural and impact strength. It maintains rigidity with excellent dimensional stability and creep resistance over wide temperature ranges, as well as good resistance to moisture, chemicals, alkali and acids. It does not melt or soften at high temperatures, and offers users extended application capability beyond typical NEMA grades. Unlike thermoplastics, Matrix HT does not lose strength.