

MC511AF

TECHNICAL DATA BULLETIN

GRADE: MC511AF

IEC: 60893-3-2-EP GC 203

U.L. LISTED: N

DESCRIPTION: MC511AF is a high strength, medium weave glass epoxy laminate that retains a minimum of 50 percent of its room temperature flexural strength when tested at 150°C. Typical applications include insulation in power generation equipment and other structural applications when used in elevated temperatures. MC511AF is certifiable to MIL-I-24768/3, Type GEB.

TYPICAL PROPERTIES

	UNITS	VALUE			
		Thickness Tested			
		1.59mm	3.18mm	12.70mm	
PHYSICAL PROPERTIES					
Moisture Absorption (IEC 60893-2/8.2)	Condition A	mg	11.90	14.10	25.70
Flexural Strength (IEC 60893-2/5.1)	Condition A LW / CW	MPa	460 / 400	440 / 370	410 / 350
Izod Impact Strength (IEC 60893-2/5.4.3)	Condition A LW / CW	kJ/m ²			66 / 55
Charpy Impact Strength (IEC 60893-2/5.4.2)	Condition A LW / CW	kJ/m ²			66.60 / 53.00



Global Thermoset Composite Solutions

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TYPICAL PROPERTIES (continued)

	UNITS	VALUE		
		Thickness Tested		
		1.59mm	3.18mm	12.70mm
THERMAL PROPERTIES				
Flammability Vertical (IEC 60893-2/7.2)	Condition A Class	HB	HB	HB
ELECTRICAL PROPERTIES				
Breakdown Voltage (IEC 60893-2/6.1)	Condition A kVolts		65	65
Electric Strength (IEC 60893-2/6.1)	Condition A kV/mm	25		
Insulation Resistance (IEC 60893-2/6.3)	Condition E-24/50; D-24/23 MΩ	3.33E+13	3.33E+13	

This data, while believed to be accurate and based on reliable analytical methods, is for informational purposes only. The terms and conditions of the agreement under which it is sold will govern any sales of this product. Data supplied above are "typical values"; not to be considered "specification values".

To assure the material's performance is adequate for a specific application; customers should verify, independent of Norplex-Micarta, performance characteristics of interest.

It is the responsibility of the users of this information to make sure that they have the latest version of this TDB, and are urged to check with Customer Service or, preferably our web site, www.norplex-micarta.com, to determine if the information is the most current available.

Specification writers: Contact Norplex-Micarta for specification values before submission.