

MC330

TECHNICAL DATA BULLETIN

GRADE: MC330

NEMA GRADE: --

U. L. LISTED: N

DESCRIPTION: Grade MC330 is a cotton cloth/phenolic resin composite which is specially processed to be used in cryogenic applications. Such applications include spacers for installation of liquid oxygen apparatus where temperatures are as low as minus 320°F.

THICKNESS TESTED: 0.062", 0.125" & 0.500"

TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES		UNITS	VALUE
Specific Gravity (0.062")		-	1.37
Rockwell Hardness (0.062")		M Scale	100
Moisture Absorption (0.062") Condition Di-24/23		%	3.5
Flexural Strength (0.062") Condition A	LW / CW	psi	18,000 / 17,000
Flexural Modulus (0.062") Condition A	LW / CW	kpsi	1,600 / 1,500
Tensile Strength (0.125") Condition A	LW / CW	psi	12,000 / 9,700
Izod Impact Strength (0.500") Condition E-48/50	LW / CW	ft-lb/in notched	1.95 / 1.75
Compressive Strength (0.500") Condition A	Flatwise	psi	34,000
Bond Strength (0.500") Condition A		lb	2,500
Condition D-48/50			2,300
Shear Strength (0.062")	Perpendicular	Psi	14,000

THERMAL & ELECTRICAL PROPERTIES	UNITS	VALUE
Temperature Index Electrical / Mechanical	°C	-- / 125 ¹
Coefficient of Thermal Expansion (0.062") x-axis / y-axis	"/°Cx10 ⁻⁶	20.0 / 22.0
Flammability Rating - U. L. 94 (0.062")	Class	HB
Breakdown Voltage (0.062") Condition A	kV	20
Condition D-48/50		5
Electric Strength (0.062") Condition A	V/mil	400
Condition D-48/50		150
Arc Resistance D495 (0.125") Condition A	sec	15
Comparative Tracking Index D3638 (0.125")	V	155

¹ NEMA LI-6: This temperature is a recommendation only, and based upon experience in various applications. The maximum operating temperature is dependent upon the application and should be investigated prior to use.

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 information is most current.

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