

MC320LE

TECHNICAL DATA BULLETIN

GRADE: MC320LE

NEMA: LE

U.L. LISTED: N

DESCRIPTION: Grade MC320LE is a fine weave bleached cotton phenolic composite that has excellent machining characteristics and low moisture absorption. Applications include marine applications, terminal boards and parts requiring medium strength and excellent electrical characteristics.

TYPICAL PROPERTIES

		UNITS	VALUE		
			Thickness Tested		
			0.0625"	0.125"	0.500"
PHYSICAL PROPERTIES					
Specific Gravity (ASTM D792)		-			1.38
Rockwell Hardness (ASTM D785)0.250" Build-up		M Scale	102		
Moisture Absorption (ASTM D570)Condition A		%		0.87	
Flexural Strength (ASTM D790)Condition ALW / CW		psi (Mpa)		24,000 / (165.5) /	
Tensile Strength (ASTM D638)Condition ALW / CW		psi (Mpa)		18,800 / (129.6) /	
Izod Impact Strength (ASTM D256)Condition ALW / CW		ft-lb/in (J/cm)			
		ft-lb/in (J/cm)		1.50 / (0.80) /	
Compressive Strength (ASTM D695)Condition AFlatwise		psi (Mpa)		38,000 (262.0)	
Bonding Strength (ASTM D229)Condition A		lb (kg)			1,700 (771.1)
Shear Strength (ASTM D732)Condition APerpendicular		psi (Mpa)		14,000 (96.5)	

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TYPICAL PROPERTIES (continued)

	UNITS	VALUE		
		Thickness Tested		
		0.0625"	0.125"	0.500"
THERMAL PROPERTIES				
Temperature Index ¹ (UL Bulletin 746b) Electrical / Mechanical	°C	115 / 125		
Tg by DSC Scan (DELTA)	°C			
Flammability Rating Condition A (UL Bulletin 94)	Class	HB		
ELECTRICAL PROPERTIES				
Dissipation Factor Condition A @ 1 MHz	-	0.044		
Relative Permittivity Condition A @ 1 MHz	-	5.30		
Breakdown Voltage Condition A (ASTM D149)	kVolts	70		
Arc Resistance Condition A (ASTM D495)	sec		130	

¹ 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".

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.