

PRODUCT SERIES: B51 SERIES BMC
PRODUCT DESCRIPTION: ELECTRICAL GRADE

Properties	46-12		48-50	
	Imperial	SI	Imperial	SI
Impact Strength-Izod Notched Test Method: ASTM D-256	8.0 to 10.0 ft.lb./in.	40 to 50 J/m	4.0 to 5.0 ft.lb./in.	20 to 25 J/m
Flexural Strength Test Method: ASTM D-790	19,000 to 22,000 psi	131 to 152 MPa	14,000 to 16,000 psi	97 to 110 MPa
Flexural Modulus Test Method: ASTM D-790	2.0 10 ⁶ psi	14 Gpa	2.0 10 ⁶ psi	14 Gpa
Tensile Strength Test Method: ASTM D-638	7,000 to 9,000 psi	48 to 62 MPa	6,000 psi	41 MPa
Compressive Strength Test Method: ASTM D-695	23,000 psi	159 MPa	24,000 psi	166 MPa
Water Absorption (24 Hrs @ 23C) Test Method: ASTM D-570	0.15%	0.15%	0.11%	0.11%
Barcol Hardness Test Method: ASTM D-2583	30 to 50	30 to 50	40 to 50	40 to 50
Specific Gravity Test Method: ASTM D-792	1.78 G/CM3	1.78 G/CM3	1.93 G/CM3	1.93 G/CM3
Shrinkage Test Method: ASTM D-955	0.001 to 0.003 in/in	0.1 to 0.3%	0.001 to 0.003 in/in	0.1 to 0.3%
Bulk Factor App. Test Method: ASTM D-1895	2	2	1	1
Dielectric Strength Test Method: ASTM D-149	290 kV/in	11 kV/mm	305 kV/in	12 kV/mm
Arc Resistance Test Method: ASTM D-495	180+ Seconds	180+ Seconds	190 Seconds	190 Seconds
Heat Deflection Temperature @ 264 psi Test Method: ASTM D-648	>500 F	>260 C	>500 F	>260 C
Flame Resistance @ 1.5mm Test Method: UL94	V-0	V-0	V-0	V-0
Flame Resistance @ 3.0mm Test Method: UL94	--	--	V-0	V-0

The information on this sheet is a guide. The stated values reflect an average of several tests conducted on CI's goods. These values were obtained under ideal conditions and may not be replicated in any particular test, part, or application. Because the values achieved in actual parts depend considerably on part design, molding conditions, and testing methods, no guarantee is made or implied regarding values to be obtained in any specific test, part, or application. CI makes no warranty or representation as to the suitability of any of its goods for use in any application. CI relies on customer to conduct its own tests and judge for itself the suitability of CI's goods.

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