

PRODUCT SERIES: 40 SERIES BMC
PRODUCT DESCRIPTION: DIELECTRIC & FLAME RESISTANT

Properties	48-50		46-12		46-16	
	Imperial	SI	Imperial	SI	Imperial	SI
Impact Strength-Izod Notched Test Method: ASTM D-256	4 ft.lb./in	214 J/m	8 ft.lb./in	427 J/m	14 ft.lb./in	747 J/m
Flexural Strength Test Method: ASTM D-790	14,000 psi	97 MPa	18,000 psi	124 MPa	18,000 psi	124 MPa
Flexural Modulus ASTM D-790	1,800 ksi	12 GPa	2,000 ksi	14 GPa	1,800 ksi	12 GPa
Tensile Strength ASTM D-638	5,000 psi	35 MPa	7,000 psi	48 MPa	8,000 psi	55 MPa
Tensile Modulus ASTM D-638	2,000 ksi	14 GPa	2,000 ksi	14 GPa	1,800	12 GPa
Compressive Strength ASTM D-695	24,000 psi	166 MPa	23,000 psi	159 MPa	26,000 psi	179 MPa
Water Absorption (24 Hrs @ 23C) ASTM D-570	0.1 to 0.3%	0.1 to 0.3%	0.1 to 0.3%%	0.1 to 0.3%%	0.1 to 0.3%	0.1 to 0.3%
Specific Gravity (+/- 0.03) ASTM D-792	1.8 to 2.0	1.8 to 2.0	1.7 to 1.9	1.7 to 1.9	1.7 to 2.0	1.7 to 2.0
Shrinkage ISO 2577	0.1 to 0.3%					
Barcol Hardness ASTM D-2583	30 to 50	30 to 50	30 to 50	30 to 50	30 to 60	30 to 60
Bulk Factor App. Test Method: ASTM D-1895	1	1	2	2	2.5	2.5
Dielectric Strength Test Method: ASTM D-149	305 kV/in	12 kV/mm	290 kV/in	11 kV/mm	290 kV/in	11 kV/mm
Arc Resistance Test Method: ASTM D-495	180+ Seconds					
Heat Deflection Temp. @ 264 psi Test Method: ASTM D-648	>500 °F	>260 °C	>500 °F	>260 °C	>500 °F	>260 °C
Flame Resistance @ 1.5mm Test Method: UL94	V-0	V-0	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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PRODUCT SERIES: 40 SERIES BMC (44-10)
PRODUCT DESCRIPTION: DIELECTRIC & FLAME RESISTANT

Properties	44-10	
	Imperial	SI
Impact Strength-Izod Notched Test Method: ASTM D-256	4 ft.lb./in	213.5 J/m
Flexural Strength Test Method: ASTM D-790	15,000 psi	103 MPa
Flexural Modulus ASTM D-790	1,800 ksi	12 GPa
Tensile Strength ASTM D-638	6,000 psi	41 MPa
Tensile Modulus ASTM D-638	2,000 ksi	14 GPa
Compressive Strength ASTM D-695	21,000 psi	145 MPa
Water Absorption (24 Hrs @ 23C) ASTM D-570	0.1 to 0.3%	0.1 to 0.3%
Specific Gravity (+/- 0.03) ASTM D-792	1.8 to 2.0	1.8 to 2.0
Shrinkage ISO 2577	0.1 to 0.3%	0.1 to 0.3%
Barcol Hardness ASTM D-2583	30 to 50	30 to 50
Bulk Factor App. Test Method: ASTM D-1895	1	1
Dielectric Strength Test Method: ASTM D-149	305 kV/in	12 kV/mm
Arc Resistance Test Method: ASTM D-495	180+ Seconds	180+ Seconds
Heat Deflection Temp. @ 264 psi Test Method: ASTM D-648	>500 °F	>260 °C
Flame Resistance @ 1.9mm Test Method: UL94	V-0/5VA	V-0/5VA

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PRODUCT SERIES: 40 SERIES BMC (46-3)
PRODUCT DESCRIPTION: DIELECTRIC & FLAME RESISTANT

Properties	46-3	
	Imperial	SI
Impact Strength-Izod Notched Test Method: ASTM D-256	1.5 ft.lb./in	80 J/m
Flexural Strength Test Method: ASTM D-790	8,000 psi	55 MPa
Flexural Modulus Test Method: ASTM D-790	-	-
Tensile Strength ASTM D-638	3,000 psi	21 MPa
Tensile Modulus ASTM D-638	-	-
Compressive Strength ASTM D-695	13,000 psi	90 MPa
Water Absorption (24 Hrs @ 23C) ASTM D-570	0.1 to 0.3%	0.1 to 0.3%
Heat Distortion Temperature ASTM D-648	>400 °F @ 264 psi	>400 °F @ 264 psi
Specific Gravity (+/- 0.03) ASTM D-792	1.7 to 1.9	1.7 to 1.9
Barcol Hardness ASTM D-2583	20 to 50	20 to 50
Bulk Factor App. Test Method: ASTM D-1895	1	1
Mold Shrinkage ASTM D955	0 to 0.2%	0 to 0.2%
Arc Resistance Test Method: ASTM D-495	>180 Seconds	>180 Seconds
Dielectric Strength Test Method: ASTM D-149	300 KV/inch	12 KV/mm
Flame Resistance @ 1/16" Test Method: UL94	V-0	V-0
Flame Resistance @ 1/8" Test Method: UL94	V-0	V-0
Flame Resistance @ 1/4" Test Method: UL94	V-0	V-0

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