



## DIELECTRITE 46-09 BMC 15% Glass Reinforced

Thermoset polyester-glass reinforced BMC with excellent electrical properties, high strength, and V-0 flame rating. Good moldability and produces molded parts with excellent surface finish. Used in electrical switchgear applications. Specifically formulated for applications requiring wear resistance.

Property	Test Method, Unit	Properties	Test Method, Unit	Properties
<b>Physical and Mechanical Properties</b>				
Impact Strength	ASTM D256, FT- LBS/IN	6	ISO-179, kJ/m <sup>2</sup>	30
Flexural Strength	ASTM D790, PSI	16,000	ISO-178, MPa	110
Flexural Modulus	ASTM D790, 10 <sup>6</sup> PSI	--	ISO-178, GPa	--
Tensile Strength	ASTM D638, PSI	6,000	ISO-527, MPa	41
Compressive Strength	ASTM D695, PSI	--	ISO-604, MPa	--
Water Absorption	ASTM D570, %	0.12	ISO-62, %	0.12
Specific Gravity	ASTM D792, G/CM <sup>3</sup>	1.80	ISO-1183, --	1.80
Shrinkage	ASTM D955, IN/IN	0.002	ISO-2577, %	0.2
Hardness	ASTM D2583, Barcol	--	ASTM D2583, Barcol	--
Bulk Factor App.	ASTM D1895, --	1	ASTM D1895, --	1
<b>Electrical Properties</b>				
Dielectric Strength	ASTM D149, kV/in	400	ISO-243, kV/mm	16
Arc Resistance	ASTM D495, Seconds	180	ASTMD495, Seconds	180
<b>Thermal &amp; Flame Retardant Properties</b>				
Heat Deflection Temperature @ 264PSI	ASTM D648, °F	> 500	ISO-75, °C	> 260
Flame Resistance				
@ 1.5 mm		--		--
@ 3.0 mm	UL94	--	UL94	--
@ 6.0 mm		--		--

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