



## DIELECTRITE 44-2 BMC 15% Glass Reinforced

Polyester Resin, glass reinforced molding compound with good mechanical properties. Produces parts with excellent appearance. Used in applications requiring temperature resistance up to 400° F.

Property	Test Method, Unit	Properties	Test Method, Unit	Properties
<b>Physical and Mechanical Properties</b>				
Impact Strength	ASTM D256, FT- LBS/IN	3 – 4	ISO-179, kJ/m <sup>2</sup>	15 – 20
Flexural Strength	ASTM D790, PSI	12 – 15,000	ISO-178, MPa	83 – 103
Flexural Modulus	ASTM D790, 10 <sup>6</sup> PSI	--	ISO-178, GPa	--
Tensile Strength	ASTM D638, PSI	5 – 7,000	ISO-527, MPa	34 – 48
Compressive Strength	ASTM D695, PSI	20 – 22,000	ISO-604, MPa	138 – 152
Water Absorption	ASTM D570, %	--	ISO-62, %	--
Specific Gravity	ASTM D792, G/CM <sup>3</sup>	1.85	ISO-1183, --	1.85
Shrinkage	ASTM D955, IN/IN	0.003 – 0.004	ISO-2577, %	0.3 – 0.4
Hardness	ASTM D2583, Barcol	40 – 45	ASTM D2583, Barcol	40 – 50
Bulk Factor App.	ASTM D1895, --	1	ASTM D1895, --	1
<b>Electrical Properties</b>				
Dielectric Strength	ASTM D149, kV/in	350	ISO-243, kV/mm	14
Arc Resistance	ASTM D495, Seconds	183	ASTMD495, Seconds	183
<b>Thermal &amp; Flame Retardant Properties</b>				
Heat Deflection Temperature @ 264PSI	ASTM D648, °F	> 550	ISO-75, °C	> 288
Flame Resistance				
@ 1.5 mm		--		--
@ 3.0 mm	UL94	--	UL94	--
@ 6.0 mm		--		--

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