

# BMC/DMC



COMPOSITES



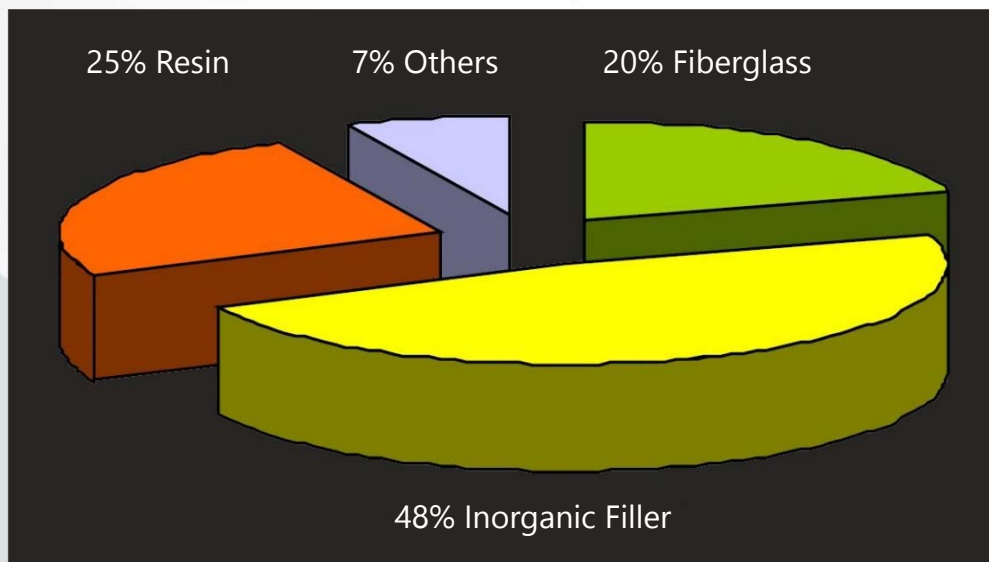
FORENGE

Fiber reinforced (chopped glass fiber) thermoset polyester resin mix of bulk (or dough) form and typically processed by injection or compression molding.

Primarily consists of an amalgam of thermosetting resin, chopped glass fibre reinforcement and filler in the form of a bulk material. The mixing process amalgamates the resin paste, fillers, additives and reinforcements into a mass material with a dough-like consistency

Designed to offer superior mechanical properties, excellent electrical and fire protecting characteristics and capable of processing complex molding shapes.

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## BMC MATERIAL GRADES

Sl. #	Material Classification	Applications	GRADE	Fiber Content	Moulding Temperature	Specific Gravity	Shrinkage	Tensile Strength	Impact Strength	Flexural Strength	Heat Distortion Temperature	Fire Retardancy	Glow Wire Test	Volume Resistivity	Surface Resistivity
1	<b>General Purpose</b>	General purpose composite material for Housing, Covers and functional components with minimal fire retardancy	FB0100	15±2%	145-160	1.8-2.0	0.1-0.2	34	25	100	240	HB	850	1.0*10 <sup>12</sup>	1.0*10 <sup>12</sup>
2	<b>Heat and Corrosion Resistant</b>	Composite material intended for use in Sanitary, cookware, appliance and indirect food contact applications.	FB0200	12±2%	145-160	1.8-2.0	0.1-0.2	30	24	80	240	HB	850	1.0*10 <sup>12</sup>	1.0*10 <sup>12</sup>
3	<b>UV Stable</b>	These materials are suitable for use in applications requiring superior colorfastness & physical property retention upon exposure to UV and visible light	FB0300	15±2%	145-160	1.8-2.0	0.1-0.2	34	25	100	240	-	850	1.0*10 <sup>12</sup>	1.0*10 <sup>12</sup>
4	<b>Corrosion Resistant</b>	These composites are formulated to meet the strict performance requirements of pumps, pipe flanges underground application that are impacted by corrosive environments.	FB0400	20±2%	145-160	1.8-2.0	0.1-0.2	60	40	140	240	-	850	1.0*10 <sup>12</sup>	1.0*10 <sup>12</sup>
5	<b>Dielectric &amp; Flame Resistant</b>	Composts for electrical applications that possesses very good Dielectric properties and Flame retardancy	FB0500	18±2%	145-160	1.8-2.0	0.1-0.2	45	30	120	240	V0	960	1.0*10 <sup>12</sup>	1.0*10 <sup>12</sup>
6	<b>Electrical Insulators &amp; Flame Resistant</b>	These high strength BMC composites are suitable for use in electrical applications requiring high insulating strength and Flammability properties	FB0600	30±2%	145-160	1.8-2.0	0.1-0.2	70	50	160	240	V0	960	1.0*10 <sup>12</sup>	1.0*10 <sup>12</sup>

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