

Technical Data Sheet  
Typical Application — Coil Encapsulation

Premi-Ject® 1102H is a fiberglass reinforced thermoset bulk molding compound for coil encapsulation applications.

**Key Features and Benefits:**

- Designed with unique flow properties to encapsulate coil windings.
- Excellent transfer and injection process capabilities in multi-cavity tools.
- Recognized by Underwriters Laboratories, File #E42524.
- May be extruded for high output transfer molding.
- Standard colors are blue and black.

Typical Values. Mechanical values are for Specimens cut from Compression-Molded panels.			
Properties	Test Method	Values (US)	Values (Metric)
Flexural Strength	ASTM D-790	9,800 psi	68 MPa
Flexural Modulus	ASTM D-790	1.3 x 10 <sup>6</sup> psi	9 GPa
Tensile Strength	ASTM D-638	3,800 psi	26 MPa
Tensile Modulus	ASTM D-638	1.3 x 10 <sup>6</sup> psi	9 GPa
Tensile Elongation	ASTM D-638	0.4%	0.4%
Notched Izod	ASTM D 256	7 ft*lb/in	375 Joules/m
Unnotched Impact	ASTM D 4812	8 ft*lb/in	425 Joules/m
Flame Resistance	UL94-HB	pass, 0.125"	pass, 3.2 mm
UL Relative Thermal Index (electrical)	UL 746C	266 deg F	130 deg C
UL Relative Thermal Index (mechanical)	UL 746C	266 deg F	130 deg C
UL Relative Thermal Index (impact)	UL 746C	266 deg F	130 deg C
Dielectric Strength, KV/mm	ASTM D149	330 Volts/mil	13 kV/mm
Arc resistance, seconds	ASTM D495	188 sec	188 sec
Heat Deflection Temperature, 264 psi	ASTM D792	400+ deg F	200+ deg C

This BMC product is generally intended to be transfer or injection molded in matched metal die molds, typically at 300°F (150°C) and 500 to 1000 psi (35-65 BAR) molding pressure. Strength values may be affected by the molding process. Nominal values for polymerization shrinkage (0.0005 to 0.0015 in/in) and specific gravity (1.85-1.95) may be customized for individual applications. Contact your Premix sales representative for specific design recommendations.

**Following physical characteristics are typical of this product:**

CLTE, XY direction: 25 ppm/ deg C
CLTE, Z direction: 35 ppm/deg C
Thermal Conductivity: 0.3 W/m <sup>2</sup> deg K
Poisson's Ratio: 0.3

**The values presented in this data sheet are typical values and are not to be interpreted as product specifications.**  
All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, expressed or implied.

*Last modified: 7/29/2009*