

Preliminary Technical Data Sheet

Typical Application — Electrical/Flame Retardant

Premi-Ject® 1101V-15 is a fiberglass reinforced thermoset bulk molding compound for electrical and flame retardant applications.

**Key Features and Benefits:**

- Non-Halogen FR technology for regulatory compliance.
- Good dimensional stability, including excellent thermal resistance.
- Pigmentable for molded-in color; best appearance with mold texture.
- Recognized by Underwriters Laboratories, File # E42524.
- Underwriters Laboratories 94-VO flame resistance at 1.60 mm thickness.

Typical Values. Mechanical values are for specimens molded to net shape.			
Properties	Test Method	Values (US)	Values (Metric)
Flexural Strength	ASTM D-790	14,000 psi	96 MPa
Flexural Modulus	ASTM D-790	1.4 x 10 <sup>6</sup> psi	9.6 GPa
Tensile Strength	ASTM D-638	6,500 psi	45 MPa
Tensile Modulus	ASTM D-638	2.0 x 10 <sup>6</sup> psi	14 GPa
Notched Izod	ASTM D 256	8 ft*lb/in	425 Joules/m
Unnotched Impact	ASTM D 4812	11 ft*lb/in	600 Joules/m
UL Relative Thermal Index (electrical)	UL 746C	266 deg F	130 deg C (pending)
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
Flame Resistance	U.L. 94 V0	Pass, 0.0625 in	Pass, 1.59 mm
Dielectric Strength, KV/mm	ASTM D149	330 Volts/mil	13 kV/mm
Arc resistance, seconds	ASTM D495	240 sec	240 sec

This BMC product is generally intended to be compression 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 (0.0020 to 0.0040 in/in) and specific gravity (1.95 to 2.05) 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: TBD
CLTE, Z direction: TBD
Thermal Conductivity: TBD
Poisson's Ratio: 0.3