



Three Bond International, Inc.

Technical Data Sheet

TB2285

HIGH GLASS TRANSITION TEMPERATURE ONE COMPONENT EPOXY

Information

TB2285 is a high performance, single package, and ivory white epoxy suitable for coating electric motor coils. It has a high glass transition temperature, excellent electrical insulating properties, high bonding strength, and good crack resistance. It will self-level upon application and sets quickly at 120°C with complete cure achieved in one hour. Curing time is less than 30 minutes at 150°C. Two stage curing, 120°C x 30 minutes + 150°C x 30 minutes, is recommended for applications other than thin film.

Typical Properties

1. Uncured State

Property	Units	Value
Appearance		Ivory White
Viscosity	Pa•s {P}	120 {1200}
Specific Gravity		1.55

2. Cured Material

Property		Units	Value
Standard Curing Conditions	120°C	Minutes	60
	150°C		30
Lap Shear Strength - Steel/Steel		MPa {kgf/cm ² }	19.6 {200}
Glass Transition		°C	163
Coefficient of Thermal Expansion		/°C	4.21 x 10 ⁻⁵

3. Electric Characteristics

Property	Units	Value
Volume Resistance	Ohm•m {Ohm•cm}	1.23 x10 ¹³ {1.23 x 10 ¹⁵ }
Dielectric Constant At 1MHz	-	4.64
Breakdown Voltage	MV/m {kV/mm}	26.4 {26.4}

These are typical properties and not product specifications.