

Three Bond International, Inc. Technical Data Sheet

TB2222P ONE-COMPONENT EPOXY

Information

TB2222P is a very high performance, single component epoxy resin. It has high glass transition temperature; excellent electrical insulating properties, high bonding strength, and high peel strength. TB2222P has also good bonding for soldering process.

Typical Properties

1. Uncured State

Property	Units	Value
Appearance	-	Black
Viscosity	Pa•s (P)	45 (450)
Specific Gravity	-	1.6
Standard Curing Condition	-	100°C × 1 Hour

2. Cured Material

Property	Units	Value
Hardness	Shore D	89
Lap Shear Strength Steel/Steel	MPa (kgf/cm ²)	24 (240)
Peel Strength Steel/Steel	kN/m (kgf/25mm)	4.1(10)
Glass Transition	°C	115
Coefficient of Thermal Expansion	/°C	4.5 × 10 ⁻⁵

3. Electric Characteristics

Property	Units	Value
Volume Resistivity	Ω•m (Ω•cm)	2.9 × 10 ¹³ (2.9 × 10 ¹⁵)
Dielectric Constant 1kHz	-	4.4
Dielectric Constant 1MHz	-	4.3
Dielectric tanδ 1kHz	-	0.00579
Dielectric tanδ 1MHz	-	0.0118

These are typical properties and not final product specifications.