



EP 2669

THERMALLY CONDUCTIVE EPOXY RESIN

● PRODUCT DESCRIPTION

EP2669 is a high performance electrical insulating, thermally conductive epoxy adhesive, potting and encapsulation compound. A combination of excellent characteristics of thermal conductivity and low coefficient expansion. EP2669 is a two component room temperature cure system which has an advantage about storage, shipping and curing for heat sensitive components against one component systems. Typical applications are; heat sink bonding, casting of magnetic coils, encapsulation of heat emitting components, transformers and all kind of heat sensitive application.

● CURING PROPERTIES

Pot Life	60 min.
Cure Time @ 25°C :	24 hours
Cure Time @ 65°C :	2 hours

● UNCURED PROPERTIES

Color:	Black
Viscosity (Catalyzed, 25°C, cps)	70,000
Specific Gravity:	2,3
Mix ratio (by weight):	100:8 (PartB:PartA)

● CURED PROPERTIES

Tensile Strength (N/mm ²)	62
Hardness (Shore D)	90
Compressive Strength (N/mm ²)	512
Flexural Strength (N/mm ²)	88,25
Thermal Conductivity	
W/mK	1.20
(BTU/ (HR) (FT ²) (°F/In)	8.32
Thermal Expansion Coefficient (10 ⁶ .°C ⁻¹)	39
Thermal Deflection (264 psi), °C	70
Water Absorption (7 Days)	Less than 0.1%
Volume Resistivity	
(ohm-cm @ 25°C)	7 x 10 ¹⁴
(ohm-cm @ 150°C)	1.3 x 10 ¹²
Dielectric Constant (25°C) 60Hz	5.0
1 k Hz	4.9
1 M Hz	3.9
Dissipation Factor (25°C) 60Hz	0.004
1 k Hz	0.001
1 M Hz	0.05
Dielectric Strength (Volts/mil ⁻¹)	460
Operating Temperature	-75°C +130°C
Glass Transition Temp (Tg), °C	52



● INSTRUCTION FOR USE

The surfaces should be free of dust, oil and other dirt in order to obtain an optimal efficient bond.

The components A and B have to be homogenised well, weight out in mixing ration and homogenised with each other for min. 2 minutes.

From now, the pot life time starts and the adhesive has to be applied rapidly. The mixed adhesive should not be applied after the pot life time. It is useful to mix only this quantity of adhesive you can apply during the pot life time.

For curing heat must be applied. In some cases they will cure even at room temperature. But higher temperature will reduce the curing time. For detailed curing information, please look into the technical data sheet.

Shelf life: Store in original, unopened containers for 12 months at room temperature

