

Nonflammable Casting Resins for High Voltage Transformer

Excellent Humidity Resistance, Halogen-free and Antimony-free Environmental Friendly Casting Resin (TCG1100 series)

Strong Points

- 1) Halogen-Free / Antimony-Free Type Environmental Friendly Casting Resin.
- 2) UL 94 V-0 Approved Grade for 6.4mm Layer Thickness.
- 3) Long Pot Life and Excellent Workability
- 4) Excellent Impregnation Property for parts.
- 5) Excellent Mechanical Properties and Electrical Properties.
- 6) Excellent Dampproofing Property.

Application

- a) High Voltage Transformer and Flyback Transformer

Application: Flyback Transformer of Televisions



Characteristic Table of Epoxy Casting Resins

Item	Test Conditions	Units	Halogen-Free TCG1123TH	Conventional TCG1180K2
Specific Gravity	25°C	---	1.57	1.72
Viscosity	25°C	Pa s	2.2	3.7
Tg / C.T.E	TMA	°C / ppm/K	111 / 50	110 / 43
Flexural Strength	25°C	MPa	111	113
Flexural Modulus	25°C	GPa	6.6	8.5
Volume Resistivity	25°C	M ohm m	3.6 x10 ⁷	4.7 x10 ⁷
Dielectric Strength	25°C	MV/m	>30	>30
Flammability	UL94	---	V-0 (6.4mm)	V-0 (1.6mm)

* TCG1123TH : Singapore Factory Product

Dielectric Strength vs. PCT Time(121°C 2atm)

