

Environmental Friendly Resins with Excellent Humidity Resistance Equivalent to Halogen Antimony Conventional Type for FBT

Strong Points

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

Application

- a) Flyback Transformer and High Voltage 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*10 ⁷	4.7*10 ⁷
Dielectric Strength	25°C	MV/m	>30	>30
Flammability	UL94	---	6.4t V-0	1.6t V-0

* TCG1123TH : Singapore Factory Product

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

