

PRODUCT DATA SHEET

TCE-22343, Thermally Conductive Epoxy, Conformal Coating

TCE-22343 provides both thermal conductivity and electrical insulation. It is typically used to coat printed circuit boards and heatsink assemblies. The coating effectively transfers heat across the coated surface, and can be applied easily using convention methods such as brush, spray, or dip. TCE-22343 is opaque and dries dimple free.

TECHSOURCE CATALOG NUMBERS:

TCE-22343R (Resin, Gallon)
TCE-22343H (Hardener, Pint)
TCE-22343EK (Evaluation Kit)

UNCURED:

Viscosity @ 25°C (cps, uncatalyzed)	100 - 300
Specific Gravity @ 25°C	1.3 to 1.4
Color	Black
Shelf Life	12 months

PHYSICAL PROPERTIES

Weight Mix Ratio (Resin:Hardener)	100:3.9
Working Time (when stored at 25°C/77°F)	24 hours
Service Temperature (°C continuous)	-65 to 130
Service Temperature (°C intermittent)	-100 to 230
Hardness (Shore D)	88 to 90

THERMAL PROPERTIES

Thermal Conductivity (cal/sec/cm ² /°C/cm x 10 ⁻⁴)	26.2
Thermal Conductivity (BTU/ft ² /hr/°F/in)	7.7
Thermal Resistance (°C in/watt)	35.6
Coefficient of Thermal Expansion (in/in/°C x 10 ⁶)	24

ELECTRICAL PROPERTIES

Volume Resistivity (@ 25°C, Ω-cm)	10 ¹⁶
Dielectric Constant (@ 25°C, 100 KC)	5.6
Dissipation Factor (@ 25°C, 100 KC)	0.02
Dielectric Strength (.003" thickness, volts/mil)	1,000 to 2,000