

HumiSeal® 2E42T-B

Thermally Conductive Epoxy Encapsulant

Technical Data Sheet

HumiSeal® 2E42T-B is a room temperature curing two-part epoxy system designed to be used to encapsulate electronic packages. This product has been formulated to provide the user with an easy to work with one to one by volume mix ratio. Once encapsulated with HumiSeal® 2E42T-B an electronic package will exhibit a higher resistance to both physical shock as well as exposure to water and other potentially harmful chemicals.

Applications	Features	Substrates
Electronic Encapsulation	Convenient mix ratio	Metal
	Room temperature cure	Glass
	Moisture resistant	Plastics
	Chemical resistant	Ceramic
	Physical shock resistant	

Properties of HumiSeal® 2E42T-B

Chemical Class	Epoxy
Specific Gravity Part A at 25°C	1.62
Specific Gravity Part B at 25°C	1.46
Viscosity Part A	16,000 – 24,000cps
Viscosity Part B	24,000 – 39,000cps
Mix Ratio, PBV	1:1
Appearance	Black
Work Life, minutes	60
Curing	24hrs @ RT 2hrs @ 65°C 1hr @ 85°C
Hardness, Shore D	60 – 70
Glass Transition Temperature (Tg)	31°C
CTE (-40°C to 80°C) ppm	42°C
Thermal Conductivity (W/m.K)	0.807
Dielectric Strength (V/mil)	> 500
Operating Temperature Range	-40°C to 155°C

Storage

HumiSeal® 2E42T-B should be stored between 10°C and 28°C in tightly closed containers away from direct sunlight. Shelf life is 6 months from DOM.

Caution

Application of HumiSeal® 2E42T-B should be carried out in accordance with local and national health and safety regulations. Use only in well-ventilated areas to avoid inhalation of vapor. Avoid contact with skin and eyes.

Consult SDS prior to use.

Contact HumiSeal®

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