

HumiSeal® 2E42T-B 2K Epoxy Provisional 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 the epoxy, an electronic package will exhibit a higher resistance to both physical shock as well as exposure to water and other potentially harmful chemicals.

Properties of HumiSeal® 2E42T-B

Typical Properties of Uncured Material

Property	Value
Chemical Class	Epoxy : Amine
Color, Parts A : B	Black : Tan
Specific Gravity A : B	2.20-2.35 : 1.55-1.65
Viscosity, Part A @ 25°C, Spn7 @ 20RPM, cps	23,000 to 50,000
Viscosity, Part B @ 25°C, Spn6 @ 20RPM, cps	20,000 – 42,000
Mix Ratio, PBV	1:1
Filler Base	Tabular Alumina

Typical Properties of Cured Material

Hardness, Shore D	55 to 65
Thermal Conductivity, BTU in/hr-ft ² , F	5.5
Thermal Conductivity, W/Meter, K	0.8
Glass Transition Temperature (T _g), C	31.45
Operating Temperature, °C	-50 to 155

Cure Overview

Gel Time @ RT, min, 100g	198
Cure Time @ RT, hrs	24 to 48
Cure Time @ 65°C, min	120

Application of HumiSeal® 2E42T-B Epoxy

HumiSeal® 2E42T-B typical application is for electronic encapsulation.

Cleanliness of the substrate is extremely important to the successful application of UV acrylate adhesives. Surfaces should be free of moisture, dirt, wax, grease and all other contaminants. Otherwise, residues on the substrate could be trapped under the coating and cause problems with adhesion or electrical properties. The user should perform adequate testing to confirm compatibility of this product for their own purposes. Please contact HumiSeal for additional information.

Storage

Store material in cool, dry location at a temperature between 10°C to 28°C. Keep from freezing. Refer to packaging specific quote for shelf life information. Consult SDS for safe handling recommendations.

Caution

Application of HumiSeal® product should be carried out in accordance with local and National Health and Safety regulations.

Consult SDS/MSDS for safe handling recommendations prior to use.

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