HumiSeal® 1E17BLK
Epoxy Adhesive

HumiSeal® 1E17BLK is a medium-viscosity, one-component epoxy formulated for industrial adhesion, small electrical potting, and laminating applications where fast heat cure is required. HumiSeal® 1E17BLK cures in under 10 minutes at 125 °C and after cure provides excellent electrical insulation with strong resistance to moisture, acids, bases, and organic solvents. It can be used as an adhesive for metals and most plastics.

Applications	Features	Substrates
Electrical potting	One component	Plastics
Laminating	High fracture toughness	Metals
Industrial adhesion	Low expansion rate (45ppm/°C)	

Typical Properties of HumiSeal® 1E17BLK*

Chemical Class	Epoxy
Color	Black
Viscosity @ 25°C, Spn7 @ 20 RPM, cPs	20,000 to 32,000
Specific Gravity	1.22
Cleanup Solvent	Isopropyl Alcohol
Cure Time @ 80°C, 10 grams, minutes	60
Cure Time @ 125°C, 10 grams, minutes	10
Durometer Hardness, Shore D	83
Elongation, %	3.3
Glass Transition Temperature (Tg), °C	56
CTE, ppm, Below Tg	45
CTE, ppm, Above Tg	120
Tensile Strength, MPa (psi)	38 (5,560)
Lap Shear Strength, Al / Al, psi	2,800
Volumetric Shrinkage, %	1.6
Dielectric Strength, Volts/Mil	>500
Dissipation Factor, 1 MHz	0.02
Water Absorption, 2 hrs boiling water, %	1.8
Water Absorption, 7 days 22°C water, %	0.63
Operating Temperature Range, °C	-60 to 125

*All properties given are typical values and are not intended for use in preparing specifications

STORAGE

HumiSeal® 1E17BLK is packaged and stored at temperatures to induce freezing. Temperature and thermal history can impact the cured and uncured properties of HumiSeal® 1E17BLK, please allow HumiSeal® 1E17BLK to equilibrate to approximately 22°C prior to use. Avoid thermally cycling the material prior to use. Please refer to product labeling for shelf-life information. Consult SDS for safe handling recommendations.

CAUTION

Application of HumiSeal® Epoxies should be carried out in accordance with local and National Health and Safety regulations. Use only in well-ventilated areas to avoid inhalation of vapours or spray.

Avoid contact with skin and eyes.

Consult SDS prior to use.

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