

HumiSeal® 1R32/521 PB65 Acrylic Conformal Coating **Technical Data Sheet**

HumiSeal® 1R32/521 PB65 is a fast drying, single component, acrylic coating that has been formulated for use in automated spray equipment without requiring additional thinning. HumiSeal® 1R32/521 PB65 demonstrates excellent flexibility, fluoresces under UV light for ease of inspection and is easily repaired. HumiSeal® 1R32/521 PB65 coating is RoHS Directive 2002/95/EC compliant.

Properties of HumiSeal® 1R32/521 PB65

Density, per ASTM D1475

Solids Content, % by weight per Fed-Std-141, Meth. 4044

Viscosity, per Fed-Std-141, Meth. 4287

Drying Time to Handle per Fed-Std-141, Meth. 4061

Recommended Coating Thickness Recommended Curing Conditions

Time Required to Reach Optimum Properties

Recommended Stripper

Shelf Life at Room Temperature, DOM Thermal Shock, 50 cycles per MIL-I-46058C

Coefficient of Thermal Expansion - TMA

Glass Transition Temperature - DSC

Modulus - DMA

Dielectric Withstand Voltage, per MIL-I-46058C Dielectric Breakdown Voltage, per ASTM D149

Dielectric Constant, at 1MHz and 25°C per ASTM D150-98

Dissipation Factor, at 1MHz and 25°C per ASTM D150-98

Insulation Resistance, per MIL-I-46058C

Moisture Insulation Resistance, per MIL-I-46058C

Fungus Resistance, per ASTM G21

 $0.90 \pm 0.02 \text{ g/cm}^3$

25 ± 2 %

65 ± 5 centipoise 667 grams/liter 10 minutes 25 - 75 microns

24 hrs @ RT or 30 min @ 76°C

7 days

HumiSeal® Stripper 1080

24 months -65°C to 125°C 170 ppm/°C below T_a

340 ppm/°C above T_a

14°C

2000 MPa @ -40°C 1050 MPa @ 20°C 8.5 MPa @ 60°C

>1500 volts 7500 volts

2.5 0.01

 $8.0 \times 10^{14} \text{ ohms } (800 \text{T}\Omega)$ $6.0 \times 10^{10} \text{ ohms } (60 \text{G}\Omega)^{'}$

Passes

Application of HumiSeal® 1R32/521 PB65

Cleanliness of the substrate is of extreme importance for the successful application of a conformal coating. Surfaces must be free of moisture, dirt, wax, grease, flux residues and all other contaminants. Contamination under the coating could cause problems that may lead to assembly failures.

Spraying

HumiSeal® 1R32/521 PB65 can be sprayed using automated spraying equipment. Spraying should be done in an environment with adequate ventilation so that the vapor and mist are carried away from the operator.

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Storage

HumiSeal® 1R32/521 PB65 should be stored away from excessive heat or cold, in tightly closed containers. HumiSeal® products may be stored at temperatures of 0 to 35°C. Prior to use, allow the product to equilibrate for 24 hours at a room temperature of 18 to 32°C.

Caution

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

The solvents in HumiSeal® Conformal Coatings are flammable. Material should not be used in presence of open flame or sparks. Use only in well-ventilated areas to avoid inhalation of vapours or spray. Avoid contact with skin and eyes.

Consult MSDS/SDS prior to use.

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