

EMC 25A Series Conductive Adhesive Product Datasheet

Excellent Reworkability
Excellent Shielding Effectiveness
Room Temperature Cure and Storage

Description

EMC 25A is a conductive particle filled, one part epoxy conductive adhesive, which has exceptional electrical conductivity and excellent EMI shielding, anti-static protection, corona shielding in a wide range of applications. EMC 25A can be applied to glass, plastic, YINCAE conformal coating surface or epoxy substrate using conventional methods. EMC 25A can be cured at room temperature, although optimum results can be achieved at elevated temperature. After cure, EMC 25A not only provides excellent protection to all surfaces against moisture, dust, chemicals and other harsh environment, but also offers excellent EMI.

Typical Physical Properties

Product Name	EMC 25A Conductive Adhesives
PROPERTIES OF UNCURED MATERIAL	
Appearance	Black/Gray liquid
Specific Gravity (ASTM D 1475-60)	1.6 g/cc
Viscosity (Zahn Cup)	18 – 26 s
PROPERTIES OF CURED MATERIAL	
Glass Transition Temperature (T _g) (ASTM D3418-82)	68 °C
C.T. E (ASTM E 831), PPM /°C (ASTM E 831)	$\alpha_1 = 75$

Durometer Hardness (ASTM D-224)	A75
Humidity Resistance (85C/95RH, 120 days)(IPC-CC-830)	Pass
Flexibility (MIL-L-46058C)	Excellent
Adhesion (ASTM D2197)	Excellent
Extractable ions (MIL-STD-883E)	
Na+	<5ppm
K+	<5ppm
F-	<5ppm
Cl-	<10ppm
Thermal Performance	
Thermal Shock (-65/+125 °C)(IPC-CC-830)	100 cycles, Class 3
Temperature range for use	-65 to 125°C
Electrical Performance	
Max. Surface Resistance (ASTM D-257)	100 – 1000Kohm/sq.

Recommended Curing Conditions

EMC 25A can complete the curing at room temperature for 24 – 48h or 1 – 2h at 60°C.

Storage & Shelf Life

6 months provided materials are kept in a sealed original container at room temperature. Storage beyond this period can produce higher viscosity. Protect from UV light, moisture, evaporation and foreign materials. Process ability of these products can be adversely affected by evaporation and contamination.



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Safety

EMC 25A is a friendly, non-toxic material. However, general hygiene practice is recommended when handling this material. For detailed information, please consult the product SDS.

Package

EMC 25A antistatic adhesive is available in 55cc and 12oz. Other packages are available depending upon customer's request. Contact YINCAE for order information.