

FI-1212 – Conformal Coating

Technical Data Sheet

Product Description:

FI-1212 is a low viscosity UV/LED light and moisture curable conformal coating for the electronics industry. It is formulated to flow and cure underneath parts on a PCB. The purpose of Dual Cure Conformal Coatings is to achieve curing where light cannot reach. The coating thickness can be up to 0.125 mm.

Properties before Curing

Property	Data	Test STD method
Appearance	Transparent liquid	
Chemical Class	Polyurethane Acrylate	
Viscosity (cP) at 25°C	120 - 135	ASTM D1084
Density, g/ml	1.07	ASTM D1875

Key properties after Curing

Property	Data	Test Method
Durometer Hardness	D75	ASTM D2240
Tensile at break, psi	1650	ASTM D638
Elongation at break, %	55	ASTM D638
Modulus of Elasticity, psi	22000	ASTM D638
Glass Transition Temp. (Tg), °C	55	Thermal Analysis (DSC)
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Linear Shrinkage, %	1.5	ASTM D2566
Water Absorption, % @ 25°C, 24 hr	0.2	ASTM D570
Dielectric constant (1 MHz)	3.90	ASTM D-150
Volume Resistivity, ohm-cm	1.01 x10 ¹⁶	ASTMD-257
Surface Resistivity, ohm-cm	3.92 x10 ¹⁵	ASTMD-257

Functional Inks, Inc Conformal Coating products are VOC free (100% solid). The Dual Cure Conformal Coating cures upon exposure to UV light (via spot lamps, focused beam lamps, flood lamps, or conveyor systems), and cures via moisture in the shadow or dark areas of the PCB.

Contact

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