

LCD 66F LCD End-sealing Sealant Product Datasheet

Extremely Low Moisture Absorption

Easy Flow Control

High Reliability

Description

LCD 66F is one part 100% solid, UV curable LCD end sealant has very low moisture absorption. LCD 66F has excellent adhesion to glass or aluminum. After cure, LCD- 66F can provide excellent protection to all surfaces against moisture, dust, chemicals and other harsh environments. All data of thermal cycle and surface insulation resistance have indicated LCD 66F meets MIL-I-46058C and IPC-CC-830 standards. LCD 66F is also in full compliance with the RoSH Directive.

Typical Physical Properties

Product Name	LCD 66F end-sealing sealant
PROPERTIES OF UNCURED MATERIAL	
Appearance	Transparent yellowish liquid
Solvent (%)	0
Specific Gravity (ASTM D 1475-60)	1.02 g/cc
Viscosity (ASTM D-1384)	10 – 12 kcp
PROPERTIES OF CURED MATERIAL	
Glass Transition Temperature (Tg) (ASTM D3418-82)	18 °C
C.T. E (ASTM E 831), PPM /°C	$\alpha_1 = 75$

Durometer Hardness (ASTM D-224)	D50
Surface Insulation Resistance (IPC-J-STD-004)	Pass
Humidity Resistance (85C/95RH, 120 days) (IPC-CC-830)	Pass
Flexibility (MIL-L-46058C)	Excellent
Adhesion (ASTM D2197)	Excellent
Moisture Absorption (ASTM D-570)	0.1%
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

Recommended Curing Conditions

LCD 66F can complete the curing in a few seconds when exposed to one 365 watts per inch 365nm UV light (“H” lamp) with light intensity 2 – 5W/cm².

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

LCD 66F 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

LCD 66F conformal coating is available in 55cc and 12oz. Other packages are available depending upon customer's request. Contact YINCAE for order information.