

BF 90S Lid Sealant Product Datasheet

Extremely Low Moisture Absorption

Easy Control Flow

High Reliability

Description

BF 90S is one part 100% solid, thermal cure lid sealant has very low moisture absorption. BF 90S has excellent adhesion to PCB, Copper, Ceramic, glass or aluminum. After cure, BF 90S 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 BF 90S meets MIL-I-46058C and IPC-CC-830 standards. BF 90S is also in full compliance with the RoSH Directive.

Typical Physical Properties

Product Name	BF 90S lid sealant
PROPERTIES OF UNCURED MATERIAL	
Appearance	Transparent yellowish liquid
Specific Gravity (ASTM D 1475-60)	1.08 g/cc
Viscosity (ASTM D-1384)	10-20Kcp
Solvent (%)	0
PROPERTIES OF CURED MATERIAL	
Durometer Hardness (ASTM D-224)	D90
Humidity Resistance (85C/95RH, 120 days) (IPC-CC-830)	Pass

Surface Insulation Resistance (IPC-J-STD-004)	Pass
Tg (ASTM D3418-82)	125 °C
C.T. E (PPM /°C) (ASTM E 831)	$\alpha 1 = 65$
Flexibility (MIL-L-46058C)	Excellent
Adhesion (ASTM D2197)	Excellent
Moisture Absorption (ASTM D-570)	< 0.5%
Extractable ions (MIL-STD-883E)	
Na+	<5ppm
K+	<5ppm
F-	<5ppm
Cl-	<10ppm
Thermal Performance	Pass
Thermal Shock (-65/+125 °C) (IPC-CC-830)	100 cycles, Class 3

Recommended Curing Conditions

BF 90S can complete the curing in 5-10 min at 90 °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.

Safety

BF 90S is a friendly, non-toxic material. However, general hygiene practice is recommended when handling this material. For detailed information please consult our SDS.



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Package

BF 90S adhesive is available in 10cc, 30cc, and 55cc syringes. Other packages are available depending upon customer's request. Contact YINCAE for order information.