

Technical Data Sheet

EP-13-B1

Low Temperature Cure Adhesive

Introduction:

EP-13-B1 is a one component, non-conductive thermoset adhesive designed for curing at low temperature and gives excellent adhesion on a wide range of materials in considerably short time. It is suitable for camera module application.

Characteristics:

- Fast cure at low temperature
- Excellent reliability and adhesive strength

UNCURED PROPERTIES		TEST DESCRIPTION	TEST
			METHOD
Appearance	Black	Visual Examination	FT-P031
Density	1.45g/cc	Pycnometer	FT-P001
Viscosity @ 25°C	20,000 cps	Brookfield DV-Ⅲ/CP-51 @ 5rpm	FT-P006
Thixotropic Index	2.6	Brookfield DV-Ⅲ/CP-51	FT-P008
@ 25°C		Visc. @ 0.5rpm/Visc @ 5rpm	
Work Life @ 25°C	72 hours	25% increase in visc. @ 5rpm	FT-P024
Shelf Life@ <-20°C	4 month		FT-P018
CURING	Schedule	20 minutes @80°C, in oven	
MECHANICAL PROPERTIES- POST CURE		TEST DESCRIPTION	TEST METHOD
Hardness (Shore D) 80		Shore D (after 80°C @20mins)	FT-P037

The tables shown above are typical values only. If you need to write a specification , please request our current Standard Release Specification.



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PHYSIOCHEMICAL PROPERTIES	TEST DESCRIPTION	TEST METHOD
Glass Transition Temperature (Tg) 42°C	TMA Expansion Mode	FT-M016
Coefficient of Thermal Expansion		
Below Tg(α 1) 39 ppm/°C	TMA Expansion Mode	FT-M016
Above Tg(α 2) 129 ppm/°C		
Moisture absorption 1.7 %	85°C/85%RH,24hrs	FT-P032

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Instruction

Thawing

Place the container to stand vertically for 60mins. **DO NOT** open the container before adhesive reaches ambient temperature to prevent the moisture condensation. Any moisture that collects on the thawed container should be removed prior to use. Adhesives that appear to have separated should not be used.

Storage

Adhesive should be stored @ $<-20^{\circ}$ C. The shelf life of the material is only valid when the material has been stored at the correct storage condition.

Availability

FeedBond[®] adhesives are packaged in syringes or pots per customer specification. For the details, please contact our Customer Service or sales department.