Feedpool Technology Co., Ltd.

Technical Data Sheet

EP-20-L05B

Insulation encapsulant

Introduction:

EP-20-L05B Suitable for steel plate printing process. Mainly used for press-fit/capping, MEMS packaging, etc. It can be used for adhesion of LCP/PCB/glass/metal/ceramic substrates. Used in mobile phone components, sensors, etc.

- Suitable for printing processes
- Low moisture uptake
- Low warpage
- Solvent-free

UNCURED PROPERTIES		TEST DESCRIPTION	TEST METHOD
Appearance	Black	Visual	
Viscosity @ 25℃	80000 cps	Brookfield DV-Ⅲ/CP-52 @ 5rpm	FT-P006
Thixotropic Index @ 25℃	3.25	Brookfield DV-Ⅲ/CP-52 Visc @ 0.5rpm/Visc @ 5rpm	FT-P008
Grind	＜20μm	Grindmeter	FT-P025
Work Life @ 25℃	72 hours	25% increase in Visc. @ 5rpm	FT-P024
Shelf Life @ -40℃	6 months		FT-P018
CURE CONDITION		TEST DESCRIPTION	TEST METHOD
Standard Curing Condition		30 min @ 175 °C or 90 min @ 150 °C (Increase or decrease curing time depending on thickness)	

p.s. This table is only the test data of Feedpool laboratory, customers still need to do a complete verification test for the product before putting it into production.

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PHYSIOCHEMICAL PROPERTIES-POST CURE		TEST DESCRIPTION	TEST METHOD
Glass Transition Temperature	113 ℃	DMA 3 Point Bending Mode	FT-M014
Coefficient of Thermal Expansion		TMA Expansion Mode	FT-M016
Below Tg	90 ppm/℃		
Above Tg	143 ppm/℃		
Dynamic Tensile Modulus			FT-M019
@25℃	1936 MPa	Dynamic Mechanical Thermal Analysis using <1.5 mm thick Specimen	
@150℃	40 MPa		
@250℃	36 MPa		
MECHANICAL PROPERTIES-POST CURE		TEST DESCRIPTION	TEST METHOD
LCP Shear Strength @ 25℃	>4 Kg	LCP(4*1.5mm)/PCB	FT-M012
LCP Shear Strength @260℃	>4 Kg	LCP(4*1.5mm)/Glass	FT-M012

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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~ -40℃. The shelf life of the material is only valid when the material has been stored at the correct storage condition.

Transport

During transportation, we are placed in dry ice or low-temperature ice packs and placed with temperature indicators to ensure product quality. When you receive the goods and find that there is no dry ice residue (or the temperature indicator is liquid), please take photos immediately and do not use them and notify our sales staff immediately.