

Technical Data Sheet

EP-20-L04B

Insulation encapsulant

Introduction:

EP-20-L04B 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
- B-stage type

		TEST DESCRIPTION	TEST
UNCORED PROPERTIES		TEST DESCRIPTION	METHOD
Appearance	Black	Visual	
Viscosity @ 25°C	34000 cps	Brookfield DV-III/CP-52 @ 5rpm	FT-P006
Thixotropic Index	4.0	Brookfield DV-Ⅲ/CP-52	FT-P008
@ 25°C	4.0	Visc @ 0.5rpm/Visc @ 5rpm	
Grind	$<\!20\mu m$	Grindmeter	FT-P025
Work Life @ 25°C	72 hours	25% increase in Visc. @ 5rpm	FT-P024
Shelf Life @ -40°C	6 months		FT-P018
CUPE CONDITION		TEST DESCRIPTION	TEST
CURE CONDITION			METHOD
Standard Curing Condition		60 min @ 100 °C (drying stage)	
		60 min @ 150 °C or 30 min @ 175 °C	
		(curing stage)	
		(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-		TEST DESCRIPTION	TEST	
POST CURE				METHOD
Hardness		70 °C	Durometer Shore D	FT-M014
Glass Transition	n Temperature	82 °C	DMA 3 Point Bending Mode	FT-M014
Coefficient of Thermal Expansion			TMA Expansion Mode	FT-M016
	Below Tg	52 ppm/°C		
	Above Tg	177 ppm/°C		
Dynamic Tensile Modulus				FT-M019
	@25°C	2693 MPa	Dynamic Mechanical Thermal	
	@150°C	27 MPa	Analysis using <1.5 mm thick Specimen	
	@250°C	29 MPa		
MECHANICAL PROPERTIES- POST CURE			TEST DESCRIPTION	TEST METHOD
Shear Strength	@ 25°C	>10 Kg	80*80min Chip/Glass	FT-M012
Shear Strength	@260°C	>3 Kg	4.04*1.54mm LCP/PCB	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 $@-20 \sim -40^{\circ}$ C. 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.