

Technical Data Sheet

EP-2101-7A-88

B-Stageable Adhesive

Introduction:

EP-2101-7A-88 is designed for use in laminate-based packages and stencil printing. This material is ideal for chip scale packages where tolerance and bleed need to be minimized. EP-2101-7A-88 is a low modulus adhesive ideal for large die sizes.

Features

- Stencil printing
- Low moisture uptake
- Low warpage

UNCURED PROPERTIES		TEST DESCRIPTION	TEST METHOD
Density	1.2 g/cc	Pycnometer	FT-P001
Appearance	black		
Viscosity @ 25°C	29000 - 33000 cps	Brookfield DV-III/CP-51 @ 5rpm	FT-P006
Thixotropic Index @ 25°C	3 – 3.6	Brookfield DV-III/CP-51 Visc @ 0.5rpm/Visc @ 5rpm	FT-P008
Grind	< 20µm	Grindmeter	FT-P025
Work Life of B-Stage @ 25°C	3 days	25% increase in visc. @ 5rpm	FT-P024
Shelf Life @ -40°C	6 months		FT-P018
CURE CONDITION		TEST DESCRIPTION	TEST METHOD
B-stage Cure Condition		85min@ 45 - 55 °C	
C-stage Cure Condition		60 min@ 150°C	
MECHANICAL PROPERTIES- POST CURE		TEST DESCRIPTION	TEST METHOD
Die Shear Strength @ 25°C	10 Kg/die	2x2mm Si die on Microscope Slide Glass	FT-M012
Die Shear Strength @ 240°C	2 Kg/die	2x2mm Si die on Microscope Slide Glass	FT-M012

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- POST CURE	TEST DESCRIPTION	TEST METHOD
Glass Transition Temperature 85 °C	DMA 3 Point Bending Mode	FT-M014
Coefficient of Thermal Expansion	TMA Expansion Mode	FT-M016
Below Tg 60 ppm/°C		FT-M016
Above Tg 160 ppm/°C		FT-M016
Dynamic Tensile Modulus	Dynamic Mechanical Thermal	FT-M019
@ -60°C 4500 MPa	Analysis using <1.5 mm thick Specimen	FT-M019
@25°C 3300 MPa	Analysis using <1.5 mm thick Specimen	FT-M019
@150°C 180 MPa	Analysis using <1.5 mm thick Specimen	FT-M019
@250°C 60 MPa	Analysis using <1.5 mm thick Specimen	FT-M019

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