

Technical Data Sheet

EP-M6791-1

Low Temperature Cure Insulative Adhesive

Introduction:

EP-M6791-1 is a single component of low-temperature cured epoxy adhesive, with excellent flexibility and adhesion, for a variety of substrates such as plastics, glass, metal and ceramic materials have excellent interface binding force. Its low temperature short-term curing properties are suitable bonding for thermally sensitive electronic components. Typical applications include Camera modules, Finger Print Sensors, Wearable electronics, and more.

Characteristics:

- Excellent dispensing performance: minimal tailings and wire-pulling phenomenon
- Fast low temperature curing
- Excellent insulation performance
- For plastics, metals and glass with high adhesion force
- Low chlorine content (< 900ppm)

UNCURED PROPERTIES		TEST DESCRIPTION	TEST METHOD
Appearance	Black		FT-P031
Density	1.37 g/cc	Pycnometer	FT-P001
Fineness	<40µm		
Viscosity @ 25°C	7,000~11,000cps	Brookfield DV-III/CP-52 @ 10rpm	FT-P006
Work Life @ 25°C	48 hours	25% increase in visc. @ 10rpm	FT-P024
Shelf Life@ -20°C	6 months		FT-P018
CURE CONDITION		TEST DESCRIPTION	TEST METHOD
Standard Cure Condition: 80°C @5minutes		in oven	
Cure Application	70°C @ 30minutes 80°C @ 20minutes 90°C @ 10minutes	in oven	FT-P028
Weight loss on cure	<1.0%		FT-P010
MECHANICAL PROPERTIES- POST CURE		TEST DESCRIPTION	TEST METHOD
Hardness :	60	Shore A	FT-P037



PHYSIOCHEMICAL PROP	ERTIES	TEST DESCRIPTION	TEST METHOD
Glass Transition Temperature (Tg) 12.99 \degree C		ТМА	FT-P027
Coefficient of Thermal Expansion			
Below $Tg(\alpha 1)$	56 ppm/°C	TMA Expansion Mode	FT-M016
Above $Tg(\alpha 2)$	211 ppm/°C		
Dynamic Flexural Modulus			
@-40°C	5700 MPa	DMA Bending Mode using <1.6 mm thick specimen	FT-M019
@25°C	4400 MPa		
@40°C	3800 MPa		
@85°C	23 MPa		
Tensile Strength	5.60 MPa	Universal Testing Machine	
Elongation	121.91%	Universal Testing Machine	
Bond Strength	5.26 MPa	LCP / Cu	FT-M012
Bond Strength	5.49 MPa	LCP / SUS304	FT-M012
Volume Shrinkage	0.96 %	Density Measurement	FT-P056
Water absorption	< 0.8%		FT-P032
Chlorine content	<900ppm		

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

Instruction:

Transport:

During the transportation process, the product is stored with dry ice or low-temperature ice packs to maintain a low temperature, and a temperature indicator is placed to ensure product quality. If you receive the shipment and find that there is no remaining dry ice (or the temperature indicator is in a liquid state), please do not use the product. Instead, immediately take photos for documentation and contact our sales personnel by phone.

Thawing

When thawing, please place the syringe (bottle, or can) in an upright position until it reaches room temperature before use (thawing time ranges from 30 to 90 minutes, depending on the container size). Wipe off any condensation that forms on the outer packaging during thawing. Do not open the packaging container until the product has completely thawed to room temperature. If the adhesive appears stratified or gelled, stop using it immediately.

Storage

Upon receiving the shipment, please store it immediately at a low temperature (-20°C), as storage at different temperatures will affect the product's shelf life.



Availability

FeedBond[®] The product is available in can or syringe packaging according to customer requirements. For detailed information, please contact customer service or the sales department.

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