

Technical Data Sheet

Insulative Adhesive

FeedBond® EP-30-BF2

Introduction :

FeedBond®EP-30-BF2 is a one-component epoxy adhesive suitable for dispensing applications, offering excellent bonding strength to materials such as glass, metal, and ceramics.

Characteristics :

- A smooth, fluid, and solvent-free insulative adhesive.
- Suitable for oven heating.
- Low temperature curing and low thermal weight loss

Uncured Properties		Test Description	Method
Appearance	Black		
Density	1.6	Hydrometer	FT-P001
Viscosity @ 25°C	26000 cps	Brookfield DV-III/CP-51 @ 5rpm	FT-P006
Thixotropy Index @ 25°C	1.35	Brookfield DV-III/CP-51 Viscosity. @ 0.5rpm	FT-P008
Grind	< 25 µm	Grindometer	FT-P026
Work Life @ 25°C	48 hrs	Viscosity Increase 30% @ 5rpm	FT-P024
Shelf Life @ -40°C	6 months		FT-P018
Curing Condition		Test Description	Method
Oven Cure		60 mins @100°C	
Volume Shrinkage	1.55 %	60 mins @100°C	FT-P056
Mechanical Properties		Test Description	Method
Die Shear Strength @ 25°C	>6 kg/die	Die Size 45mil × 45mil (Ag LF)	FT-M012

Note 1: This table provides general test data only. For detailed product specifications, please contact us.

Note 2: The jetting head temperature should not exceed 30°C. Higher temperatures will shorten the working life of the adhesive.

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Physical Properties			Test Description	Method
Glass Transitiio Temperature(Tg)		127 °C	TMA	FT-M014
Coefficient of Thermal Expansion			TMA	FT-M016
	< Tg	29 ppm/°C	DMA 3-point bending	FT-M019
	> Tg	53 ppm/°C		
Storage Modulus				
	@ -60°C	9758MPa		
	@25°C	8219 MPa	Specimen Thickness <1.5 mm	FT-P010
	@150°C	4497 MPa		
	@250°C	315 MPa		
Thermal Weight Loss			TGA	
	@200°C	0.04%		
	@300°C	0.44%		

Guidelines for Use:

Transportation

During transportation, the product is stored in dry ice or low-temperature ice packs to maintain cold conditions, with a temperature indicator included to ensure product quality. If you find no dry ice remaining (or the temperature indicator shows liquid state) upon receiving the goods, please take photos for documentation, refrain from using the product, and immediately contact our sales representatives.

Thaw

During thawing, please keep the syringe (bottle, or jar) upright until it reaches room temperature before use (the typical thawing time for standard packaging is 60 minutes). Wipe off any condensation on the outside of the packaging during the defrosting process. Avoid repeated freezing and thawing, as this may lead to abnormal separation and bubbles formation.

Storage

Upon receiving the goods, please store them immediately at low temperatures (-20°C or -40°C). The storage temperature will directly affect the product's shelf life, as the shelf life is proportional to the storage temperature.

Temperature	-35°C~-42°C	-18°C~ -22°C	0°C~ 5°C	18°C~ 28°C
Shelf Life	6 months	3 months	1 month	48 hrs

P.S. This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentation. It is not intended; however, to substitute for any testing you may need to conduct and to determine the suitability of our products by yourself for your particular purposes. This information may be subject to revision as new knowledge and experience become