

Website: www.feedpool.com

## Technical Data Sheet

# FeedBond® EP-1600-SL1

# Anti-yellowing and anti-UV insulating adhesive

### **Description:**

FeedBond®EP-1600-SL1 one-component, translucent epoxy resin adhesive, specially used for various optoelectronic components such as LED adhesives.

### **Application Package:**

Chip LED, GaN LED chip, LED lamp bonding etc.

### **Characteristics:**

- No yellowing under light and high temperature
- Middle viscosity that is adaptable to conventional processing methods such as pin transfer and dispensing.

UNCURED PROPERTIES		TEST DESCRIPTION	TEST METHOD
Appearance	Translucent		
Viscosity @ 25°C	14,000-19000cps	Brookfield DV-III/CP-51 @ 5rpm	FT-P006
Thixotropic Index @ 25°C	1.5~3.5	Brookfield DV-III/CP-51 Visc. @ 0.5rpm/Visc. @ 5rpm	FT-P008
Grind	< 10µm	Grind meter	FT-P026
Work Life @ 25°C Shelf Life@ -40°C	48hrs 6months	25% increase in visc. @ 5rpm	FT-P024 FT-P018
CURE CONDITION		TEST DESCRIPTION	TEST METHOD
Standard Cure Condition		40 minutes in oven @160°C(Oven)	



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PHYSIOCHEMICAL PROPERTIES		TEST DESCRIPTION	TEST METHOD
Glass Transition Temperature (Tg) 144°C		DMA 3 Point Bending Mode	FT-M014
Coefficient of Thermal Expansion			
Below Tg(α1)	70ppm/°C	TMA Expansion Mode	FT-M016
Above Tg(α2)	130ppm/°C		
Dynamic Tensile Modulus			
@25°C	2578MPa	Dynamic Mechanical Thermal Analysis using <1.6 mm thick	FT-M019A
@150°C	290MPa	specimen	
@250°C	216MPa		
MECHANICAL PROPERTIES- POST CURE		TEST DESCRIPTION	TEST METHOD
Die Shear Strength @ 25°C > 3Kg/die		45mil × 45mil die on Ag Leadframe	FT-M012

### 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 @ -40°C. The shelf life of the material is only valid when the material has been stored at the correct storage condition.

### **Availability**

FeedBond<sup>®</sup> adhesives are packaged in syringes or pots per customer specification. For the details, please contact our Customer Service or sales department.

Storage Temp.	-22℃~-18℃	0°℃~5°℃	18℃~28℃
Shelf Life	6months	3months	2 days