

Technical Data Sheet

FeedBond® EP-13-EPS-053-2

Thermal-Curable Adhesive

Description:

FeedBond® EP-13-EPS-053-2 is a one-component heat-curing epoxy resin adhesive. After curing, it has a good bonding with LCP, metal, and PCB. Its features are low shrinkage, good toughness, impact resistance, fall resistance, excellent electrical insulation properties and aging resistance.

Product Features:

Uncured Properties	Value	Test Description	Method
Appearance	Black	Visual	-
Viscosity @25°C (cps)	12,500~14,000	Brookfield DV-III/CP-51 @ 5rpm	FT-P006
Thixotropic Index @25°C	2.8 ~ 3.5	0.5rpm/5rpm	FT-P008
density	1.3	Pycnometer	FT-P001
Work life	48hrs	Viscosity increases 25% @ 5rpm	FT-P024
Shelf life	6 months	@ -40°C	FT-P018
Curing schedule	Condition	Test Description	
Standard Cuing Condition	60min @80°C	Thermal cure	
Mechanical Properties	Value	Test Description	Method
Hardness	D 80	Shores D	FT-M012
Physiochemical Properties	Value	Test Description	Method
DSS (Steel)	14.9Kg	Dage 4000	FT-M012
Tg	90°C	DMA	FT-M014
Coefficient of Thermal Expansion			
<Tg	51ppm/°C	TMA	FT-M016
>Tg	172ppm/°C		
Water absorption (%)@25°C,24Hr	<1.5%	Boiling water test	FT-P032
Temperature resistance range	-40°C~+150°C		

※ Remarks: This technical data contained herein are intended herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

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Instruction

Transport

It is stored in a low-temperature ice bag during transportation to ensure product quality. When you receive the product and find that the ice pack has been completely thawed, please take a photo for storage and do not use it and notify our sales staff immediately.

Thawing

Place the container to stand vertically for 60 min. **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

When receiving the product, please store it at low temperature (-40°C) immediately. Since storage at different temperatures will affect the life of the product (storage temperature is proportional to the life of the product).

Note

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 available. Since we cannot anticipate all variations in actual end-use conditions, Feedpool makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.