KLEBER KB-XERM EA3030 Thermally Conductive Epoxy Adhesive

Product Introduction

KLEBER KB-XERM EA3030 is a two-component , thermally conductive epoxy adhesive designed for electronic or general applications that require both reliable bonding and heat sink. It can be cured at room or elevated temperature and product a flame retardant material.

Features and Benefits

- Room or elevated temperature cure
- Low exotherm and stress during curing
- High thermal conductivity
- high temperature resistance
- Non-flammable

Typical Properties

Properties	Unit	Part A	Part B	Mixed
Appearance	-	Blue Paste	White Paste	Light Blue Paste
Viscosity @ 25°C，10 s-1	Pa·s	100-200	50-200	100-200
Specific Gravity	g/cm^3	2.94	2.81	2.87
Mix Ratio by Volume	-	1	1	-
Mix Ratio by Weight	-	100	95	-
Working Time @ 25°C	min	-	-	20-30
Time to Handle Strength @ 25°C	h	-	-	6-8
Curing Time @ 25°C	day	-	-	2-3
Curing Time @ 80°C	h	-	-	1-2

Typical Cured Properties

Properties	Unit	Test Method	Value
Thermal Conductivity	W/m·K	ASTM D5470	3.0
Hardness	Shore D	ASTM D2240	85
Lap Shear Strength, Aluminum @ 25°C	MPa	ASTM D1002	> 11
Tensile Strength	MPa	ASTM D638	20
Elongation at Break	%	ASTM D638	1
Glass Trannsition Temperature	°C	DMA	80
Dielectric Strength	kV/mm	ASTM D149	14

Application

- Battery package assembly
- Communication electronics

Operation Process

- Mixing: mix the two parts with ratio of 1:1 by volume, Handheld cartridges or automatic dispense are recommended for accurately mixing.
- Applying: clean the substrates and apply the mixed adhesive, join the parts and add enough pressure until the handling strength is reached.
- Curing: the mixed adhesive will reach full cure in 2-3 days at room temperature. Cure can be accelerated with elevated temperature like 80°C for 1-2 hours, the bonding performance can be improved by higher temperature curing.

Shelf Life/Storage

- Shelf life of each component is 1 year from date of manufacture when stored at 15-30°C in original unopened container.

Cautions：
The information provided in the Technical Data Sheet (TDS) (including product use and application recommendations) is based on our knowledge and experience of Kleber products. The data contained in this TDS is for reference only and is considered reliable. We cannot be held responsible for the results of others as a result of methods beyond our control. This product can have a variety of different applications and different working conditions in your environment, which is beyond our control. Therefore, Kleber assumes no responsibility for whether the product is suitable for your production process and conditions as well as the expected applications and results. We strongly recommend that you test the product before use to confirm the applicability of the product.

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