KLEBER KB-XERM EP1360/D25 Thermally Conductive Epoxy Encapsulant

Product Introduction

KLEBER KB-XERM EP1360/D25 is a two-component epoxy encapsulant material designed for electronic applications. It can be cured at room temperature or quickly at higher temperatures to provide thermal conductivity and bonding.

Features and Benefits

- Thermal conductivity
- Low viscosity and easy to use
- Reliable for environment test
- Wide temperature range（-40℃~125 ℃）

Typical Properties

Properties	Unit	Part A	Part B	Mixed
Appearance	-	Gray liquid	Transparency liquid	Gray liquid
Viscosity @ 25°C	cps	50000-70000	50-150	3000-5000
Specific Gravity	g/cm^3	2.00	1.00	1.82
Mix Ratio by weight	-	10	1	-
Working life @ 25°C	min	-	-	40-60
Gel time @ 25°C	h	-	-	2
Curing time @ 25°C	h	-	-	24
Curing time @65°C	min	-	-	45-50
Curing time @125°C	min	-	-	15-20

Typical Cured Properties

Properties	Unit	Test Method	Value
Thermal Conductivity	W/m·K	ASTM D5470	1.3
Hardness	Shore D	ASTM D2240	84
Lap Shear Strength, Aluminum @ 25°C	MPa	ASTM D1002	14
Tensile Strength	MPa	ASTM D638	32
Elongation at Break	%	ASTM D638	3
Glass Trannsition Temperature	°C	DMA	65

Application

- Heat pipe bonding

Operation Process

- Mixing and apply: Thoroughly stir each component prior to use. Mix the EP1360 and D25 parts at a ratio of 10:1 by weight with manual or automatic mix equipment. Vacuum system is recommended to avoid any air entrapment during the mixing and applying.
- Curing: The mixed encapsulant can be cured according to one of the following schedules:

25℃	24h
65℃	45-50 min
125℃	15-20 min

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.

KLEBER
Shanghai：Room 601, Building 14, Youxi International High tech Park, No. 58 Wenxiang East Road, Songjiang District, Shanghai
+86 021-60709499
Dongguan：Building F, Yizhong Science and Technology Park, No. 3 Jinsha 2nd Road, Jinshadun Industrial Zone, Shuikou Village, Dalang Town, Dongguan City
+86 0769-82236901
Vietnam：Zone DI,Green IP-I Industrial Park,Yantian Town, Tairui District,TaipingProvince
USA：8 The Green, Suite A, Dover, Delaware
www.kleber-newmaterial.com