KLEBER KB-XBOND UA310 Urethane Adhesive

Product Introduction

KLEBER KB-XBOND UA310 is a two-component urethane adhesive designed for general application. It can provide excellent bonding to PET blue film and aluminum plate with little surface treatment, The adhesive can be cured at room or elevated temperature.

Features and Benefits

- Good adhesion for wide application
- Reliable for environment test

Typical Properties

Properties	Unit	Part A	Part B	Mixed
Appearance	-	White Paste	Black Paste	Gray Paste
Viscosity @ 25°C	Pa.S	50	80	70
Specific Gravity	g/cm^3	1.25	1.82	1.53
Mix Ratio by Volume	-	1	1	-
Working Time @ 25°C	min	-	-	7-10
Time to Handle Strength @ 25°C	h	-	-	1-2

Typical Cured Properties：

Properties	Unit	Test Method	Value
Hardness	Shore D	ASTM D2240	70
Thermal Conductivity	W/m · K	ASTM 5470	0.5
Lap Shear Strength, Aluminum @ 25° C	MPa	ASTM D1002	10
Lap Shear Strength，PET Film/PET Film @ 25° C	MPa	ASTM D1002	1.5/PET Film destruction
Tensile Strength	MPa	ASTM D638	12
Elongation at Break	%	ASTM D638	1-5

Application

- Automotive
- Bus
- Train

Operation Process

- Mixing: mix the two parts at a 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 to bond surfaces, join the parts and add enough pressure until the handling strength is reached.
- Curing: the mixed adhesive will reach full cure in 24 hours at room temperature. Cure can be accelerated with elevated temperature like 80° C for 3-4 hour.

Shelf Life/Storage

- Shelf life of each component is 6 months from date of manufacture when stored at 15-30 °C in original unopened container. After opening, protect each component from excessive moisture by using dry nitrogen as an inert cover.

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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