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Technical Data Sheet

JA 484

Fast-setting Epoxy for Bonding

Product Description

JA484 is two component epoxy resin for fast-curing application. This resin exhibits high adhesion strength, greasy resistance, chemical and solvent resistance. This resin is suited for plastics, ceramics, glass and metals bonding. This product is recommended as a general adhesive where convience and speed at room temperature is desired.

Features

1. This resin exhibits good handling property for mixing.
2. This product offers good adhesion strength to many plastic and metals.
3. With initial strength, this resin can handle after 20 minutes.
4. This product is able to reduce the working time and increase the efficiency at the same time.
5. The hardening surface will not offer a surface oilness and poor gloss.
6. This product complies to the 2011/65/EU RoHS regulations.

Typical Uncured Properties

	JA484A	JA484B
Appearance	Liquid	Liquid
Color	Colorless	Light Yellow
Viscosity 25°C, S14 20rpm, cps	7,000~17,000	7,000~17,000
Specific Gravity	1.16	1.11

Typical Curing Properties

Mix Rate (A：B) By Volume	1：1
Mix Rate (A：B) By Weight	1：1~0.95
Pot Life, 25°C, min	3
Surface Dry Time, 25°C, 5g, min	13
Through Cure Time, 25°C, days	3

Direction of Use

1. This product should be applied to a clean surface which is free of dirt, grease or mold release. In many cases, a simple solvent wipe is sufficient.
2. Mix thoroughly by volume 1：1. Mix approximately 15 seconds after uniform color is obtained.
3. For optimum properties mixed, this product should be used before its pot life. Large quantity mixing is not recommended for this product.
4. For maximum bonding strength apply adhesive evenly to both surfaces to be jointed.
5. The handling information of this product supplied in dual syringe cartridge can be obtained by requesting a copy of “Introduction for Adhesive Cartridge Dispenser”, F-06122201.

Typical Cured Properties*1

Glass Transition Temp., (MDSC), °C	52
CTE*2 (100~180°C), μm/m/ °C	218
Durometer Hardness, Shore D	84
Water Absorption Ratio(25°C / 24hr), %	2.6
Water Absorption Ratio(80°C / 24hr), %	9.06
Water Absorption Ratio(97°C /1.5hr), %	5.77
Shear Strength*1, Al vs. Al, kgf/cm^2	207
Shear Strength*3, Al vs. Al, kgf/cm^2	154
Tensile Strength, MPa	40
Elongation, %	3.8
Flexural Strength, MPa	68
Flexural Modulus, MPa	2,000
Compression Strength, MPa	70
Degradation Temp, (TGA 10°C /min) °C	332
Weight Loss Ratio @ 100°C, %	0
Weight Loss Ratio @ 150°C, %	0.2
Weight Loss Ratio @ 200°C, %	0.4
Weight Loss Ratio @ 250°C, %	0.7
Weight Loss Ratio @ 300°C, %	1.6
Volume Resistivity , ohm-cm	5*10^{15}
Surface Resistivity , ohm	5*10^{14}
Dielectric Constant 100Hz	4.1

*1 Specimen Cure Condition: 25°C / 7 days
*2 CTE: Coefficient of Thermal Expansion
*3 Specimen Cure Condition: 80°C / 1hr

Storage and Shelf Life

The container should be stored in cool and dark place. The resin and hardener will become yellow under the sunlight. This product is mercaptan content, replace the lid immediately after use. Keep without any possibility of wet when not using. Shelf life of this product is one year when stored below 14~34°C in original, unopened containers.

Caution

Some findings indicate a lack of potential for carcinogenicity with the compositions of this product by long term recurrent application to the skin. However, contact with skin is likely to produce mild transient reddening. It is important to remove adhesive from skin with soap and water thoroughly. This product is of moderate acute toxicity by swallowing. If swallowed, call a doctor. Avoid contact with eyes. In case of contact, flush with water for at least 15 minutes and get medical attention. For specific information on this product, consult the Material Safety Data Sheet.