

GLT A595-2



Fast-setting Epoxy for Bonding

INTRODUCTION

GLT A595-2 is two component epoxy resin designed for fast cure. This resin exhibits high adhesion strength, greasy resistance, chemical and solvent resistance. This product is suited for plastics, ceramics, glass and metals binding. This resin is recommended as a general adhesive where convenience and speed at room temperature is desired.

FEATURES

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

TYPICAL UNCURED PROPERTIES

PROPERTIES	GLT A595-2A	GLT 595-2B
Appearance	Liquid	Liquid
Color	Black	Light yellow colorless
Viscosity 25°C, cps	12,000~17,000	10,000~15,000 S14 20rpm, cps
Specific Gravity	1.16	1.11

TYPICAL CURING PROPERTIES

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, 5G 25°C, min	13
Through Cure Time, 25°C, days	3

DIRECTION OF USE

1. It 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 weight 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.

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.

TYPICAL CURED PROPERTIES**

PROPERTIES

Glass Transition Temp.* ¹ (DSC), °C	52
CTE* ² (100~180 °C), $\mu\text{m}/\text{m}/\text{°C}$	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 Al vs. Al, kgf/cm	207
Tensile Strength, Mpa	40
Elongation at break, %	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

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.