GLUDITEC
Glue & Dispensing Technology

Technical Data Sheet

ET5122

Fast-setting Epoxy for Bonding

ET5122 is two component epoxy resin designed for fast cure. This resin exhibits high strength adhesion, 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 convience and speed at room temperature is desired.

FEATURE

- This resin exhibits good handling property for mixing.
- This product offers good strength adhesion to many plastics and metals.
- With initial strength, this resin can be handled 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.

TYPICAL UNCURED PROPERTIES

Properties	ET5122-A	ET5122-B
Appearance	Liquid	Liquid
Color	Black	Milky
Viscosity 25°C, cps	160,000~210,000 S14 5rpm	70,000~110,000 S14 10rpm
Thixotropic Index	1.69	1.65

TYPICAL CURING PROPERTIES*

Properties	Range
Mix Rate (A: B) By Weight	1：1
Pot Life, 25°C, min	1
Tack Free Time 25°C, min	3~4
Through Cure Time 25°C, days	3
Through Cure Time 80°C, hr	1

- *A: B=2g: 2g

DIRECTION OF USE

- 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.
- Mix thoroughly by weight 1：1. Mix approximately 15 seconds after uniform color is obtained.
- For optimum properties mixed, this product should be used before its pot life. Large quantity mixing is not recommended for this product.
- For maximum bonding strength apply adhesive evenly to both surfaces to be jointed.
- 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

Properties	Range
Glass Transition Temp.,(MDSC)°C	28
CTE*2 (-20~10), μm/m/°C	37
CTE*2 (100~130), μm/m/°C	151
Specific Heat 0°C, J/g°C	6.14
Specific Heat 25°C, J/g°C	6.50
Specific Heat 50°C, J/g°C	6.88
Specific Heat 75°C, J/g°C	7.07
Specific Heat 100°C, J/g°C	7.31
Durometer Hardness, Shore D	77
Specfic Gravity	1.67
Water Absorption Ratio(25°C/24hr), %	1.47
Water Absorption Ratio(97°C /1.5hr), %	2.90
Degradation Temp, (TGA 10°C /min) °C	279
Weight Loss Ratio @ 100°C, %	0.56
Weight Loss Ratio @ 150°C, %	1.24

- *1 Specimen Cure Condition: 80°C / 1hr
- *2 CTE: Coefficient of Thermal Expansion

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Properties	Range
Weight Loss Ratio @ 150°C, %	1.24
Weight Loss Ratio @ 200°C, %	1.47
Weight Loss Ratio @ 250°C, %	2.40
Weight Loss Ratio @ 300°C, %	9.39
Weight Loss Ratio @ 350°C, %	32.36
Volume Resistivity , ohm-cm	$5*10^{15}$
Surface Resistivity , ohm	$5*10^{14}$
Dielectric Constant 100Hz	4.1

CAUTION

Some findings indicate a lack of potential for carcinogen icity 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.

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.