

GL 158 Electronics Epoxy

Description

GL 158 is a one-part off white adhesive based on epoxy resins. It cures fast at elevated temperatures and has excellent adhesion to most pc boards and electronic components. It may be cured at 100°C or faster at 175°C. It has no sagging. It has a stable pot life and long shelf life even at room temperature of 25°C. It has been designed especially for bonding electronic components. It has relatively low viscosity for faster dispense from syringes. It has high thixotropic which can control the flow of the adhesive.

Applications

1. Epoxy adhesive for attaching to ceramic, metals, and most plastics in electronics.

Guidelines for Use

1. Thaw the epoxy to room temperature (25°C) before use.
2. Dispense the epoxy by using a syringe.
3. Wipe off any excess uncured adhesive with a piece of dry cloth or tissue. Further cleaning may be achieved with tissue dabbed with isopropanol.alcohol (IPA).
4. Cure the epoxy by heating at 100°C for 120 minutes in a convection oven. Curing at lower temperature will require a longer time.

Properties

Property	Test Method	Unit	Typical Value
Chemical type			Epoxy
Appearance	Pen 10		Off white paste
Mix ratio, by weight			One component
Shelf life, -20°C	Pen 26	Month	12
Pot life, 25°C	Pen 57	Week	1
Viscosity, CAP 2000+ viscometer, 25°C Cap-06@100rpm	Pen 44	cps	35,000
Thixotropic Index	Pen 37		1.8
Hardness, cured 100°C for 2 hr	Pen 29	Shore D	90
Shear strength	Pen 36	kgcm ⁻²	545
Water boil, wt gain, 100°C/1hr	Pen 21	%	<1.0
Tg, DSC, cured 100°C for 2 hr	Pen 19	°C	119
Specific gravity	Pen 14		1.4
CTE, alpha-1	-	mm ⁻¹ °C ⁻¹	6.8 x 10 ⁻⁵
, alpha-2	-	mm ⁻¹ °C ⁻¹	1.9 x 10 ⁻⁴
Ionic Content, Cl	-	ppm	<50
, K	-	ppm	< 50
, Na	-	ppm	< 20

Recommended Cure

T(°C)	Gel time	Cure time
100	12 min	2 hours
150	2 min	30 min

Storage

Tightly close original container of unused product. Store it below -20°C.

Packaging

- 5 ml EFD syringe
- 10 ml EFD syringe
- 30 ml EFD syringe

Environment, Health & Safety

This product is RoHS compliant. It does not contain any known carcinogenic, mutagenic or teratogenic components.

Contact Information

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