

ET3211

Two-part Epoxy for Electronic Devices

ET3211 is a two-component epoxy with excellent properties such as self-leveling, room temperature curing, aging resistance, moisture resistance, electrical insulation, high hardness and high breakdown voltage. This product is suitable for various applications in electronics, such as potting, casting, sealing and bonding. ET3211 is ideally used for general purpose which requires long work life.

FEATURE

- Solvent-free, environmentally friendly and low-carbon
- Electrical insulation and shock-resistant.
- Non-corrosive.
- Excellent properties even under severe weather conditions.

TYPICAL UNCURED PROPERTIES

Properties	ET3211-A	ET3211-B
Appearance	Liquid	Liquid
Color	Black	Brown
Viscosity @ 25°C, cps	18,000	100
Specific Gravity	1.80	1.10

TYPICAL CURING PROPERTIES

Properties	ET3211
Mix Ratio (A:B) by Weight	5 : 1
Pot Life @ 25°C, min	60
Through Cured Time @ 25°C, hr	48

DIRECTION OF USE

1. This product should be applied to a clean surface which is free of dirt, grease or mold release. Long-term storage because of the high specificity of group A, it is easy to stratify, so it should be mixed well before use, and the product performance will not be affected.
2. Weight the correct proportions to within 2% accuracy and mix thoroughly together, scraping both the bottom and the sides of mixing container, until a homogeneous mixture is obtained.

3. Cure time on the really part will depend upon factors such as part geometry, materials to be bonded, bond line thickness, temperature, humidity and efficiency of the oven. Cure schedule should be confirmed with actual production parts and equipment.

4. The mixed adhesive should be used within 0.5 hours.

TYPICAL CURED PROPERTIES

Properties	ET3211
Durometer Hardness, Shore D	≥ 80
Linear Shrinkage Rate (%)	0.5
Thermal conductivity (W/mK)	0.7
Dielectric Strength (kV/mm)	≥ 25
Volume Resistance (Ohm-cm)	1.2 x 10 ¹⁴
Service Temperature Range, °C	-40~90

PACKAGING, STORAGE AND SHELF LIFE

Packaging: 12kg/set; 24kg/set.

The container should be stored in cool and dark place.. Replace the lid immediately after use. Keep without any possibility of wet when not using. Shelf life of this product is six months when stored below 10~30°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. DO NOT use solvents for cleaning hands. This resin is of moderate acute toxicity by swallowing. If swallowed, call a physician. Avoid contact with eyes. In case of contact, flush with water for at least 15 minutes and get medical attention immediately. For specific information on this product, consult the Material Safety Data Sheet.

The data contained in this bulletin is provided only as a guide for evaluation/consideration. These material characteristics are typical properties that are based on a limited number of samples tested in the laboratory. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any product or method. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide.