

ST3202

Two-component Silicone for Electrical Insulation Potting

ST3202 is a two-component silicone, which is easy to use due to the mixing ratio A: B=1:1. This product has good toughness and leveling. After mixing, it can be cured within 30 minutes at 80°C, or it can be cured at room temperature.

FEATURE

- Two-component silicone, mixing ratio 1:1
- Good leveling and good adhesion to many materials
- Lower curing with low volume shrinkage
- High temperature resistance
- Good weather resistance, aging resistance, non-yellowing
- Complying to the 2011/65/EU RoHS regulations.

TYPICAL UNCURED PROPERTIES

Properties	ST3202A	ST3202B
Composition	Polysiloxane resin	Polysiloxane resin
Appearance	Liquid	Liquid
Color	Colorless	Colorless
Viscosity, 25°C, cps S14 100rpm	1,000 ~ 2,000	1,000 ~ 2,000

TYPICAL CURING PROPERTIES

Properties	ST3202
Mixing ratio (A:B)	1 : 1
Operating time, 25°C, hr	0.5
Full cure time, 80°C, min	30
Full cure time, 25°C, hr	24

DIRECTION OF USE

- A and B parts should be well mixed before using. Avoid uneven mixing cause the concentration weighted average deviation.
- It should be applied to a clean surface that is free of dirt, grease, or mold release. In many cases, a simple solvent wipe is sufficient.
- Mix the product evenly, centrifuge or vacuum to remove bubbles, and pour or apply to the target to be coated.
- Use this product as soon as possible after opening the original packages. When not using, please replace the lid tightly and store in a cool and dry place.
- Cure time on the real part will depend upon factors such as part geometry, materials to be bonded, and bond line thickness.
- Parts A and B contain a lot of fillers, so after standing at room temperature for a period of time, the fillers are prone to precipitation. It is recommended to stir well before use

TYPICAL CURED PROPERTIES

Properties	ST3202
Glass Transition Temp., (DSC), °C	- 55
Durometer Hardness, ASTM D2240-03, Shore A	30
Specific Gravity	0.9
Water Absorption Ratio (25°C/24hrs), %	0.2
Elongation, %	120
Volume Shrinkage, %	0.05
Dielectric Constant 100Hz	3.8
Dielectric Constant 1KHz	3.4
Dielectric Constant 1MHz	3.0
Dielectric Strength, kV/mm	16
Temperature Range, °C	-40 ~ 180

STORAGE, PACKING SIZE AND SHELF LIFE

The container should be stored in a cool and dark place. This product should be kept without any possibility of moisture exposure. Replace the lid immediately after use. This product has six months shelf life when stored in dark place at 14~34°C in original, unopened containers.

Keep the following items away from this product.

- Sulfides (such as mercaptans, sulfates, sulfides, rubber, etc., when the above products touch the surface of this product, they will cause a vulcanization reaction.).
- Compounds containing nitrogen and phosphorus (such as amino compounds, amines, sulfimines, nitrites, phosphates, phosphates, etc.).
- Compounds containing heavy metal ions such as tin, lead, mercury, bismuth, arsenic, etc. (such as condensed silicone, stable PVC, etc.).

CAUTION

Some findings indicate a lack of potential for carcinogenicity with the compositions of this product by long-term recurrent application to the skin. 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. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide.