

DESCRIPTION:

Tacusil™ 810051 is moisture curing adhesive. It is used for plastics and glass bonding. This product is neutral condensation type silicone (RTV-1). It is one-part silicone which can fast cure in the atmosphere without mixing. When curing, this resin is different from the traditional PU which contains isocyanate. This polymer material is safe and good for the process. This product has good non-yellowing and reworkable properties. It also exhibits good oil resistance and waterproof. This resin is widely applied in different substrates sealing and bonding.

FEATURES:

- This product has low viscosity and good leveling properties. It also has surface dryness in 10 minutes.
- This resin has flexible shock resistance. It is able to absorb the fracture energy.
- This product exhibits stable properties in a wide range of temperature.
- This product is one component adhesive. It is easy to use.
- No catalyst toxic problem. Widely use in various substrates.
- Weather and yellowing resistance.
- This product has good bonding properties to glass and plastics without any primer.
- This resin doesn't contain any toxic organic volatile matter.
- This product complies to the 2011/65/EU RoHS regulations.

TYPICAL PROPERTIES: All properties given are at 23 °C unless otherwise noted.

<i>Property:</i>	<i>Value:</i>	<i>Unit:</i>
Color /Appearance	Black liquid	
Viscosity 25 °C S14 5rpm	45,000~68,000	cps
Specific Gravity	0.98	
Hardness (Durometer) ASTM D2240-03	75	Shore 00
Surface Dry Time, 25°C	10	mins
Through Cured Time, 25°C	7	day

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INSTRUCTIONS:

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. Pour or brush this product onto the substrates, it does not recommend to stir to avoid interfusing the air. This product will be cured with the air. The curing properties depend on its thickness, curing temperature and relative humidity.
3. When potting in thicker components or devices, the resin might not be cured thoroughly at the bottom of the components or devices. This is because the bottom resin is difficult to cure with the moisture. It is recommended to extend the curing time, so that the moisture can be diffused from the top to the bottom. Another solution is to pot the components or devices twice. Cast the resin to half height of components and devices. When the surface is almost dry and tacky, pot the resin second time.
4. 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.
5. Cure time on the really part will depend upon factors such as part geometry, materials to be bonded, bondline thickness and efficiency of the oven. Cure schedule should be confirmed with actual production parts and equipment
6. Cured product will not be harmful to human when it contacts with the skin.
7. This product has slight corrosion on the copper.

STORAGE & SHELF-LIFE:

This product should be kept without any possibility of moisture exposure. Replace the lid immediately after use. Shelf life of this product is six months when stored in dark place below 14~34°C in original, unopened containers.