

Description

CT 6309W is a single part, solvent free hybrid material. It has excellent bonding strength to various substrates, and compatible with flux residue of solder paste. It is specially designed for FPC coating and component protection.

Properties

- Excellent bonding strength to various substrate, such as glass, aluminum, stainless steel, FPC, PCB, SS and Au Surface
- Easy to apply in automatic or manual processes, dispensing or screen printing.
- Fast curing.

Uncured Properties

Chemical Type	Epoxy
Appearance	White
Viscosity @25°C [mPa.s] Brookfield LVDV, SP 14# @20rpm	24,000
Thixotropic Index	4.6
Specific Gravity [g/cm³]	Approx. 1.2
Shelf Life @-20°C [months]	6
Shelf Life @25°C [hrs]	48

Curing Condition

Thermal Curing @150°C [min]	10
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Cured Properties

Hardness [Shore D]	75
Shear Strength [MPa] ASTM D1002 SUS PCB	26 17
Tensile Strength [MPa] ASTM D882	46
Elongation at Break [%] ASTM D882	1
Tg [°C] ASTM D882	90
CTE below Tg [ppm*K⁻¹]	50

CTE above Tg [ppm*K⁻¹]	189
Temperature rating guide [°C]	-40 to 260
Surface Resistivity [ohm-cm] ASTM D257	>1x10 ¹⁵
Volume Resistivity [ohm-cm] ASTM D257	>1x10 ¹⁵
Dielectric Strength [V/mil] ASTM D149	350

General Information

This product is slight irritant to eye and skin. In case of eye contact, flush with water for fifteen minute. Wash with plenty of soap and water after skin contact. If feel uncomfortable, discontinue use and consult a physician.

Storage

Maximum shelf life may be obtained when product is stored in a cool, dry location at -20°C. TO PREVENT CONTAMINATION OF UNUSED PRODUCT, DO NOT RETURN ANY PRODUCT TO ITS ORIGINAL CONTAINER.

Surface Treatment

Surfaces to be bonded should be free of dust, oil, grease or any other contamination in order to achieve a reproducible bond. For slightly contaminated surfaces it is sufficient to wipe with isopropanol or ethanol. Substrates with a low surface energy (e.g. polyethylene, polypropylene, Teflon) need to be pre-treated physically (e.g. atmospheric plasma or corona) in order to achieve sufficient adhesion.

Adhesive Application

Products are supplied ready for use. They can be dosed manually, semi-automatically or fully-automatically with dosage apparatus depend on packaging. For automatic coating from cartridges, the adhesive is conveyed with

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pressure and piston rod into a valve, for adhesives in bottles, this is done with a pump.

Further information can be found under www.colltech.de

Please read the corresponding **Safety Data Sheet** for this product.

PRELIMINARY

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