

LOCTITE® ABLESTIK CDF 600

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PRODUCT DESCRIPTION

LOCTITE® ABLESTIK CDF 600 provides the following product characteristics:

Technology	Hybrid chemistry
Appearance	Silver film
Cure	Heat cure
Product benefits	• Low warpage • Thermally conductive • Electrically conductive • High MSL reliability • Controlled fillet size • Noresin bleed-out • Consistent bondline control with minimal die tilt • Pre-cut wafer lamination equipment compatible • Recommended for thin wafer handling applications • Good wetting and low warpage for large die
Film thickness, µm	25
Application	Die attach
Typical package application(s)	PBGA, FBGA, CSP

LOCTITE® ABLESTIK CDF 600 silver filled, die attach adhesive is recommended for large die applications. It is suitable for bonding integrated circuits and components onto laminate substrates.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Filler content, %	79
Work life @ 25°C, days	60
Shelf life @ 0 to 5 °C, days	365

TYPICAL CURING PERFORMANCE

Cure schedule

30 minute ramp from 25°C to 200°C, hold 60 minutes @ 200°C

30 minute ramp to 175°C + 1 hour @ 175°C

Alternate cure schedule

30 minute ramp from 25°C to 175°C, hold 60 minutes @ 175°C

The above cure profiles are guideline recommendations. These conditions (time and temperature) may vary based on customers' experience and specific application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical properties

Coefficient of thermal expansion, ppm/°C

Below Tg	75
Above Tg	320

Glass transition temperature °C

-5

Tensile modulus,

@ 25 °C	N/mm ² (psi)	3000 (435,000)
@ 25 °C	N/mm ² (psi)	40 (5,800)

Thermal properties

Thermal conductivity, (Bulk), ASTM E1461, W/(m-K)

1.0

Thermal resistance, (Rth), in package:

Thermal die (Ti/Ni/Ag) on QFN, K/W

2.1

Electrical properties

Volume resistivity, (Bulk), ohm-cm

Cured on slide glass with clamping force, ohm-cm

0.008

TYPICAL PERFORMANCE OF CURED MATERIAL

Shear strength

Hot die shear strength @ 260°C

2 X 2 mm (80 x 80 mil) die on PPF LF, kg/mm²

~0.7

GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet (SDS).

Directions for use

1. Refrigerator storage is recommended.
2. Care must be exercised to avoid entrapment of contaminants.
3. Avoid overheating.
4. Alternate thicknesses may be used depending on the application requirements.
5. Recommended silicon wafer backside lamination temperature is 65 °C.
6. Please contact your Henkel Technical Service representative for details regarding ideal lamination temperatures for your specific wafer and dicing tape recommendation.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on the specifications of this product.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal storage: 0 to 5°C

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Henkel representative.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

Disclaimer

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