

ECCOBONDTM DX-20CTM

March 2009

PRODUCT DESCRIPTION

ECCOBOND TM	DX-20C TM	provides	the	following
product character				

Technology	Epoxy
Appearance	Translucent
Product Benefits	One component
	• No yellowing
	• Long work life
	• Excellent adhesion
	Non-conductive
Cure	Heat cure
Application	Die attach
Typical Package	GaN LED's
Application	

ECCOBONDTM DX-20CTM dielectric adhesive offers excellent adhesion strength, especially at wire bonding process temperature to minimize defect rate at assembly. It features strong heat / UV resistance and can be applied by pin transfer, stamping and dispensing.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Cone & Plate, mPa·s (cP):	
@ 25°C Speed 10 rpm	12,000
Specific Gravity	1.17
Work Life @ 25°C, days	5
Shelf Life @ -20°C, months	6
Flash Point - See MSDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

1 hour @ 170°C

Time shown does not include ramp-up time to cure temperaure.

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

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties:

Moisture Absorption	@ Saturation, wt.%	0.6
60°C/90% RH expo	sure for 24 hrs	

TYPICAL PERFORMANCE OF CURED MATERIAL

Cured	at	170°	C for	1	hour	
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Die Shear Strength:	
1.25 x 1.25 mm Si die on Ag plated Cu, N @ 25°C	125
1.25 x 1.25 mm Si die on Ag plated Cu, N @ 160°C	49

GENERAL INFORMATION

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

THAWING:

- 1. Allow container to reach room temperature before use.
- 2. Syringes should thaw a minimum of 90 minutes.
- 3. After removing from the freezer, set the syringes to stand vertically while thawing.
- 4. DO NOT re-freeze. Once thawed, the adhesive should not be re-frozen.

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 specifications for 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: -20 °C

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation 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 Technical Service Center or Customer Service Representative.

Conversions

 $(^{\circ}C x 1.8) + 32 = ^{\circ}F$ kV/mm x 25.4 = V/mil mm / 25.4 = inches N x 0.225 = lb N/mm x 5.71 = lb/in N/mm² x 145 = psi MPa x 145 = psi N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP



Note

The data contained herein are furnished for information only and believed are to be reliable. We cannot assume responsibility for the 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 production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel **Corporation** specifically disclaims any liability for incidental damages of any kind, consequential or including lost profits. The discussion herein of various processes compositions is not to be or interpreted as representation that they are from domination of patents owned by others or free under any as a license Henkel Corporation such processes patents that may cover or We compositions. recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

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Reference 0.2