

LOCTITE® ECCOBOND EN 3847

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PRODUCT DESCRIPTION

LOCTITE® ECCOBOND EN 3847 provides the following product characteristics:

Technology	Acrylate
Appearance	Black
Product benefits	- One component - Fast cure at moderate temperatures - Low Tg - Low modulus - Flexible - Reworkable
Cure	Heat cure
Application	Electronic encapsulant; Circuit board encapsulant
Typical application	Component protection on PCB/FPCB

LOCTITE® ECCOBOND EN 3847 is specially formulated for encapsulating components on PCBs or FPCBs. When cured, this material provides physical protection, stable electronic performance and protection in temperature/humidity/bias testing.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield, CP 52, 25°C, mPa.s (cP)	
Speed 20 rpm	3,876
Thixotropic index, (2/20 rpm)	3.75
Density, g/cc	1
Pot life @ 25°C, days	3
Shelf life @ -20°C, estimated, days	180

TYPICAL CURING PERFORMANCE

Recommended cure condition

≥ 10 minutes @ 130°C

The above cure profile 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

Hardness, Shore A	71
Glass transition temperature, TMA, °C	10
Elongation @ 25°C, %	55
Storage modulus, @ 25°C, N/mm ²	117

GENERAL INFORMATION

Please consult the Safety Data Sheet (SDS) for safe handling information of this product.

Thawing:

1. Allow container to reach room temperature before use.
2. After removing from the freezer, set the syringes to stand vertically while thawing.
3. Thaw times depend on the syringe size.
4. Consult handling guide for more information.
5. DO NOT open the container before contents reach 25°C temperature. Any moisture that collects on the thawed container should be removed prior to opening the container.
6. DO NOT re-freeze. Once thawed to 25°C, the adhesive should not be re-frozen.

Directions for use

1. Thawed material should immediately be placed on dispense equipment for use.
2. If the adhesive is transferred to a final dispensing reservoir, care must be exercised to avoid entrapment of contaminants and/or air into the adhesive.
3. Adhesive must be completely used within the product's recommended work life.

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. Storage below -25°C or above -15°C can adversely affect product properties.

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.

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.

Conversions

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

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Reference 1