

LOCTITE ECCOBOND EN 3940TX

September 2019

PRODUCT DESCRIPTION

LOCTITE ECCOBOND EN 3940TX provides the following product characteristics:

Technology	Epoxy
Appearance	Black liquid
Cure	Heat cure
Application	Glob top and Encapsulation
Product Benefits	• One component • Thixotropic • Fast cure at moderate temperatures • Low Tg • Low modulus • Flexible • Halogen-free
Typical Assembly Applications	• CSP/BGA connector

LOCTITE ECCOBOND EN 3940TX is specially designed to provide waterproof sealant for connectors.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity by Rheometer @ 25 °C, mPa·s (cP):	
@ Shear rate of 20mm ² /20 s ⁻¹	2,275
Thixotropic Index (2/20 s ⁻¹)	4.4
Pot Life @ 25°C, days	3
Shelf Life @ -20°C, days	270
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE**Snap Cure Condition**

>8 minutes @ 130°C

The above cure profile is a guideline recommendation. 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**

Hardness, Shore D	23
Glass Transition Temperature (Tg) by TMA, °C	2
Coefficient of Thermal Expansion, TMA, ppm/°C:	
Below Tg	54
Above Tg	211

Storage Modulus, DMA @ 25°C

N/mm² 534
(psi) (77,500)**GENERAL INFORMATION**

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

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. DO NOT re-freeze. Once thawed to 25°C, the adhesive should not be re-frozen.

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 -40°C or greater than minus -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 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

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

Disclaimer

Note:

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