

LOCTITE ECCOBOND F 202

August 2018

PRODUCT DESCRIPTION

LOCTITE ECCOBOND F 202 provides the following product characteristics:

Technology	Epoxy
Appearance	Clear
Cure	Heat cure
Product Benefits	Two component
	Low viscosity
	• 100% Solids
	 Low exotherm
	 Chemical resistant
	 Environmental resistant
Application	Component assembly, NCA
Operating Temperature	-60 to 265°C
Mix Ratio, (by weight) Resin : Hardener	100 : 3
Surfaces	Metals, glass, ceramics and most plastics
Typical Optic Application	Fiber optic connectors, small electronic castings and plastic laminates

LOCTITE ECCOBOND F 202 epoxy adhesive is recommended for photonic applications exposed to high temperatures. This material exhibits low exotherm during its short cure cycle and. for most applications, does not require degassing.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Mixed Properties:

Mixed Viscosity @ 25 °C, mPa·s (cP):

After Mixing 1,000 Specific Gravity 1.18 Pot life. days 5

Flash Point - See SDS

TYPICAL CURING PERFORMANCE

Cure Schedule

2 hours @ 125°C plus 1 hour @ 140°C or 30 minutes @ 135°C plus 30 minutes @ 175°C

For casting applications, use a step cure schedule of 2 hours @ 65°C plus 3 hours @ 125°C, followed by a post cure of 1 hour at 150°C if high temperature resistance is required.

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

Hardness, Shore D 87 Glass Transition Temperature (Tg), °C 130 Reactive solids contents, % 100 Izod Impact Strength, ft-lb/in. of notch 0.29

Electrical Properties

Volume Resistivity @ 25 °C, ohm-cm 1×10+15

TYPICAL PERFORMANCE OF CURED MATERIAL

Shear Strength

Lap Shear Strength: Al to Al N/mm² 20 (psi) (3,000)

GENERAL INFORMATION

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

DIRECTIONS FOR USE

- 1. Carefully clean and dry all surfaces to be bonded
- 2. Remove clamp and thoroughly mix the LOCTITE ECCOBOND F 202 epoxy adhesive system components in the handy BIPAX mixing-dispenser package until color is uniform throughout
- 3. Apply this completely mixed adhesive to the prepared surfaces, and gently press these surfaces together. Contact pressure is adequate for strong, reliable bonds; however, maintain contact until adhesive is completely cured

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 : ≤27 °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

(°C x 1.8) + 32 = °F kV/mm x 25.4 = V/mil mm / 25.4 = inches N x 0.225 = lb 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:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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