

LOCTITE ECCOBOND CB064 (FP4653)

June 2016

PRODUCT DESCRIPTION

LOCTITE ECCOBOND CB064 (FP4653) provides the following product characteristics:

Technology	Epoxy
Appearance	Black
Product Benefits	<ul style="list-style-type: none"> • High purity • Low stress • Liquid flexible • Self-leveling
Filler Weight, %	86
Components	One-component
Cure	Heat cure
Application	Encapsulant
Typical Applications	Cavity fill or dam and fill

The unique properties of LOCTITE ECCOBOND CB064 (FP4653) allows for it to be "chocolate breakable" on pre-scored ceramic substrate. This material is for cavity fill or dam and fill applications.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield - HRT, 25 °C, mPa·s (cP):

Spindle 14, speed 50 rpm 85,000

Specific Gravity 1.93

Pot Life @ 25°C, 20 gram mass, day 1

Gel Time @ 121 °C, minutes 11

Shelf Life @ -40°C, days 270

Flash Point - See SDS

TYPICAL CURING PERFORMANCE

Recommended Cure Schedule

2 to 3 hours @ 110°C plus

2 to 3 hours @ 150°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 :

Coefficient of Thermal Expansion ppm/°C:

Below Tg 7

Glass Transition Temperature (Tg), °C 150

Flexural Strength, ISO 178 N/mm² 25,537
(psi) (3,700,000)

Electrical Properties:

Volume Resistivity, IEC 60093, Ω·cm 1×10¹⁵

GENERAL INFORMATION

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

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.

Thawing:

1. DO NOT thaw in an oven.

DIRECTIONS FOR USE

1. LOCTITE ECCOBOND CB064 (FP4653) should be gelled within 30 minutes of dispense to prevent moisture contamination.
2. Moisture contaminated materials will exhibit compromised performance properties.

Storage

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

Optimal Storage : -40 °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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