Hysol

# CB064/FP4653

June 2010

## PRODUCT DESCRIPTION

CB064/FP4653 provides the following product characteristics:

| | |
|---|---|
| **Technology** | Epoxy |
| Appearance | Black |
| Product Benefits | • High purity<br>• Low stress<br>• Liquid flexible<br>• 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 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, days: | |
| 200 grams mass | 1 |
| Gel Time @ 121 °C, minutes | 11 |
| Shelf Life @ -40°C, month | 6 |

Flash Point - See MSDS

## 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 (psi) | 25,537 (3,700,000) |

**Electrical Properties**:

| | |
|---|---|
| Volume Resistivity, IEC 60093, Ω·cm | $1 \times 10^{15}$ |

## GENERAL INFORMATION

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

**This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.**

**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. 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
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**
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Reference 0.0