



EO1061

June 2010

PRODUCT DESCRIPTION

EO1061 provides the following product characteristics:

| | |
|-----------------------------|---|
| Technology | Epoxy |
| Appearance | Black |
| Product Benefits | <ul style="list-style-type: none"> • High performance • Medium flow |
| Filler Weight, % | 61.3 |
| Components | One-component |
| Cure | Heat cure |
| Application | Encapsulant |
| Typical Applications | Chip-on-board and Low profile devices |

EO1061 is designed to pass 1,000 hours of temperature/humidity/bias testing and thermal cycling up to 125°C. Exceptional viscosity stability at 25°C provides easier control of shot size using conventional time/pressure dispensing equipment.

TYPICAL PROPERTIES OF UNCURED MATERIAL

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

| | |
|-------------------------|--------|
| Spindle 6, speed 2 rpm | 50,000 |
| Spindle 6, speed 20 rpm | 32,500 |

Specific Gravity @ 25 °C 1.78

Pot life @ 25 °C, 200 grams mass, days 25

Gel Time @ 121°C, minutes 13

Shelf Life:

| | |
|-----------------|----|
| @ 4°C, months | 7 |
| @ -40°C, months | 12 |

Flash Point - See MSDS

TYPICAL CURING PERFORMANCE**Recommended Cure Schedule**

3 hours @ 140°C

Designed to be used with packages which are affected by higher levels of stress. This cure will give optimum properties.

Curing below 125°C is not recommended.

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 (40 to 120°C) | 40 |
| Glass Transition Temperature (Tg), °C | 125 |

Extractable Ionic Content, ppm:

| | |
|---------------------|---|
| Chloride (Cl-) | 70 |
| Sodium (Na+) | 20 |
| Potassium (K+) | 20 |
| Linear Shrinkage, % | 1.07 |
| Flexural strength | N/mm ² 64.8 (psi) (9,400) |

Electrical Properties:

Dielectric Constant / Dissipation Factor, IEC 60250:

@ 25 °C:

| | |
|---------|---------------|
| 1kHz | 4.97 / 0.0083 |
| 10 kHz | 4.92 / 0.109 |
| 100 kHz | 4.83 / 0.132 |

Volume Resistivity, IEC 60093, Ω·cm 1.9×10¹⁴Surface Resistivity, IEC 60093, Ω 2.0×10¹⁴**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. Allow container to reach room temperature before use.

Directions for use

1. EO1061 is not designed with thixotropic properties. A physical barrier, such as plastic case potting ring is required to control flow.

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

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

Note

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Reference 0.0