



EO1062

June 2010

PRODUCT DESCRIPTION

EO1062 provides the following product characteristics:

Technology	Epoxy
Appearance	Black
Product Benefits	<ul style="list-style-type: none"> • High performance • Low flow
Filler Weight, %	64
Components	One-component
Cure	Heat cure
Application	Encapsulant - glob top
Typical Applications	Chip-on-board

EO1062 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 2.5 rpm	160,000
Spindle 7, speed 20 rpm	64,000
Specific Gravity @ 25 °C	1.78
Pot life @ 25 °C, , 200 grams mass, days	25
Gel Time @ 100°C, minutes	13
Shelf Life:	
@ 4°C, months	5
@ -40°C, months	7

Flash Point - See MSDS

TYPICAL CURING PERFORMANCE**Recommended Cure Schedule**

4 to 6 hours @ 125°C

Designed for robust packages which are not sensitive to stress.

Alternative 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 25°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:	
1 kHz	4.97 / 0.0083
10 kHz	4.92 / 0.109
100 kHz	4.83 / 0.132
Volume Resistivity, IEC 60093, Ω·cm	1.9×10 ¹⁴
Surface Resistivity, IEC 60093, Ω	2.0×10 ¹⁴

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. For best results, dispense onto substrate warmed to 90°C.
2. This will help minimize air entrapment under bond wire.

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

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage

Except as otherwise noted, all marks used above on this data sheet are trademarks and/or registered trademarks of Henkel and/or its affiliates in the U.S. and elsewhere.

Reference 0.0