Hysol

STYCAST EO2000HV

May 2011

PRODUCT DESCRIPTION

STYCAST EO2000HV provides the following product characteristics:

Technology	Epoxy
Appearance	White
Product Benefits	• High viscosity • One component • Fast cure • Heat resistant • Excellent chemical resistance • Exceptional thermal stability
Cure	Heat cure
Application	Potting
Key Substrates	Phenolics and Ceramics

STYCAST EO2000HV one component, oxide-filled epoxy adhesive is designed to bond heat resistant plastics in applications requiring heat and chemical resistance. This product is especially suited for use in protecting sensors and control modules used in harsh environments such as automotive applications.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield - RVF, 25 °C, mPa·s (cP):	
Spindle 7, speed 10 rpm	95,000
Density @ 25ºC, gm/cc	1.4
Shelf Life @ 25°C, months	3
Flash Point - See MSDS	

TYPICAL CURING PERFORMANCE

Recommended Cure Schedule

1 minute @ 160°C
3 minutes @ 140°C
5 minutes @ 120°C
30 minutes @ 100°C

For optimum performance, follow the initial cure with a post cure of 2 to 4 hours at the highest expected use temperature.

Cure schedules are "the time at cure temperature to achieve full product cure". The times does not include the time required to ramp-up to cure temperature.

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:

Hardness, Shore D , @ 25°C	88
Coefficient of Linear Thermal Expansion:	
Below Tg, ppm/°C	67.3
Above Tg, ppm/°C	171
Glass Transition Temperature (Tg), °C	134
Thermal Conductivity, W/mK	0.4

Electrical Properties:

Dielectric Constant @ 1KHz	3.99
Dissipation Factor @ 1MHz	3.82
Volume Resistivity @ 25ºC, ohm-cm	7.6×10^{15}

TYPICAL PERFORMANCE OF CURED MATERIAL

Miscellaneous:

Tensile Lap Shear Strength , grit blasted, @ 25ºC :		
Al to Al	N/mm²	17
	(psi)	(2,500)

GENERAL INFORMATION

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

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. Complete cleaning of the substrates should be performed to remove contamination such as oxide layers, dust, moisture, salt and oils which can cause poor adhesion or corrosion in a bonded part.
2. Apply adhesive to all surfaces to be bonded and join together.
3. In most applications only contact pressure is required.

Storage

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

Optimal Storage: 25 °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.

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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
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 and its affiliates ("Henkel") specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel products. Henkel 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 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.

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