

# LOCTITE STYCAST EO 8009

November 2016

## PRODUCT DESCRIPTION

LOCTITE STYCAST EO 8009 provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Appearance</b>	Grey
<b>Cure</b>	Heat Cure
<b>Application</b>	Potting and Encapsulating

LOCTITE STYCAST EO 8009 epoxy, is a resilient, non-sag, heat cure glass adhesive. Non-sag properties are at room temperature and to 149°C in a 1/8 inch bead.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25°C	1.14
Viscosity @ 25 °C, mPa·s (cP)	325,000
Shelf Life @ -16°C, days	182

## TYPICAL CURING PERFORMANCE

### Gel Time

Gel Time, 20 gm mass @ 121 °C, minutes	40
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### Recommended Cure Schedule

2 hours @ 121°C

### Alternate Cure Schedule

1 hour @ 149°C

Cure time listed is the time required after the system and the unit reaches the 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

Shore Hardness , Durometer D	70 to 75
Lap Shear, psi:	
Aluminum substrate	3,424
Valox substrate	845
Zytel substrate	1,302
Glass Transition Temperature (Tg), °C	39
CTE, above Tg, mm/mm/°C	$7.7 \times 10^{-5}$
CTE, below Tg, mm/mm/°C	$25.6 \times 10^{-5}$

## 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.

## STORAGE:

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

## Optimal Storage : -16 °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

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

## 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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