

# LOCTITE STYCAST US 5002

April 2015

## PRODUCT DESCRIPTION

LOCTITE STYCAST US 5002 provides the following product characteristics:

<b>Technology</b>	Polyurethane
<b>Components</b>	Two components - requires mixing
<b>Appearance - Part A</b>	Black
<b>Appearance - Part B</b>	Off-white
<b>Appearance (Mixed)</b>	Black
<b>Mix Ratio by volume: Part A: Part B</b>	1 : 1
<b>Cure</b>	Room temperature cure
<b>Mix Ratio by weight: Part A: Part B</b>	100 : 92
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>Unfilled</li> <li>Non-sag on mixing</li> <li>Tack-free in only 1.5 hours</li> </ul>
<b>Application</b>	Potting and Encapsulating

LOCTITE STYCAST US 5002 is formulated for high speed sealing and potting applications.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

### Part A Properties

Viscosity @ 25 °C, mPa·s (cP)	8,000
Density, lbs/gal	9.5

### Part B Properties

Viscosity @ 25 °C, mPa·s (cP)	4,000
Density, lbs/gal	8.7

### Mixed Properties

Mixed Viscosity, mPa·s (cP) :	
@ 2 minutes	17,000
@ 8 minutes	90,000
Density, lbs/gal	9.1
Shelf Life, stored in cool, dry conditions, from date of manufacture, days	183

## TYPICAL CURING PERFORMANCE

### Recommended Curing Conditions

16 hours @ 25°C

### Gel Time

Gel @ 25°C, 100 gram mass, minutes 20

Gel time is longer (@ 30 minutes) in static gel tubes.

The above cure profiles are guideline recommendations. 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 A	90
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## GENERAL INFORMATION

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

**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.

## DIRECTIONS FOR USE

- This material is susceptible to moisture contamination. After opening a container, a nitrogen blanket should be applied over the material and the container should be resealed immediately after use to help minimize the chance of water ingress.

### STORAGE:

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

**Liquid Storage - Liquids should be stored at 25°C or below, in closed containers. If stored below 25°C, the material MUST be allowed to come to room temperature, in the sealed container, to avoid moisture contamination.**

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

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