

LOCTITE STYCAST ES 0571

September 2018

PRODUCT DESCRIPTION

LOCTITE STYCAST ES 0571 provides the following product characteristics:

Technology	Epoxy
Appearance - Part A	Dark grey to black paste
Appearance - Part B	Dark grey liquid
Components	Two components - requires mixing
Mix Ratio by volume: Part A: Part B	100 : 100
Mix Ratio by weight: Part A: Part B	100 : 100
Cure	Heat cure
Product Benefits	<ul style="list-style-type: none">• Two component• Electrically conductive• High dispense speeds
Application	Encapsulation and Potting
Typical Package Application	Electrical interconnect formation

LOCTITE STYCAST ES 0571 is a two-component filled epoxy system designed for encapsulation. The material provides low volume resistivity.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Part A Properties

Viscosity , Rheometer, mPa·s (cP)	85,000
Specific Gravity, g/cc	1.68
Shelf Life @ -25 to -18°C, days	180

Part B Properties

Viscosity , Rheometer, mPa·s (cP)	42,000
Specific Gravity, g/cc	1.62
Shelf Life @ -25 to -18°C, days	180

Mixed Properties

Viscosity , Rheometer, mPa·s (cP)	70,000
Specific Gravity, g/cc	1.65
Pot Life @ 25 °C, hours	8

TYPICAL CURING PERFORMANCE

Recommended Heat Cure Schedule

1 hour @ 150°C

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.

Alternate cure schedules may also be possible. Contact your Henkel representative for further information.

TYPICAL PROPERTIES OF CURED MATERIAL

Electrical Properties:

Volume Resistivity, ohm-cm 0.03

GENERAL INFORMATION

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

THAWING:

1. Allow container to reach room temperature with tip down before use.
2. 20 Oz cartridges require between 6 to 8 hours to reach room temperature.
3. Handle frozen containers only with thermal gloves.

DIRECTIONS FOR USE

1. The rheology of this material makes it suitable for use in needle dispense applications.
2. Material can be mixed either with a static mix nozzle or in a dynamic mix system.

STORAGE:

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

Optimal Storage: -25 to -18°C. Storage below -25°C or greater than minus -18°C can adversely affect product properties.

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

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

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