

LOCTITE STYCAST ES 2500

November 2016

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PRODUCT DESCRIPTION

LOCTITE STYCAST ES 2500 provides the following product characteristics:

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Technology	Epoxy
Appearance, Resin	Black
(Component A)	
Appearance, Hardener	Amber - green
(Component B)	
Appearance (Mixture)	Black
Components	Two components - requires mixing
Mix Ratio, by volume -	2:1
Part A: Part B	
Mixing Ratio,	100 : 29.5
by weight	
Component A:	
Component B	
Cure	Room temperature cure
Application	Potting and Encapsulating

LOCTITE STYCAST ES 2500 is a resilient, low cost, fast gelling, potting compound. Designed for easy 2 to 1 metermix-dispense machinery and low abrasion. This material is ideal for potting and encapsulating high volume parts.

LOCTITE STYCAST ES 2500 meets UL 94 HB Flame Retardant to 1.5mm thickness.

TYPICAL PROPERTIES OF UNCURED MATERIAL Part A Properties

Density, @ 25 °C, g/cm³ Viscosity @ 25 °C, cP	1.63 11,000
Part B Properties	
Density, @ 25 °C, g/cm³	0.97
Viscosity @ 25 °C, cP	170
Mixed Properties	
Density, @ 25 °C, g/cm3	1.41
Viscosity @ 25 °C, cP	1,500
Pot Life @ 25 °C, minutes:	
400 g mass	10
Gel Time @ 25 °C, minutes:	
400 g mass	25

TYPICAL CURING PERFORMANCE **Recommended Curing Conditions**

16 hours @ 25 °C (Recommended cure) 2 hours @ 66 °C (Alternate cure)

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties .	
Glass Transition Temperature, °C	23
Coefficient of Thermal Expansion, ppm/°C:	
Pre Tg (Alpha 1)	58
Post Tg (Alpha 2)	169
Thermal Conductivity, W/(m-K)	0.288
Shore Hardness , Durometer D	70
24 Hour Water Moisture Absorption, %	0.3
Tensile Strength, psi	1,300

Exotherm Temp, 300 grams @ °C

Electrical Properties:	
Dielectric Strength, 10 mil thickness, volts/mil 410)
Arc Resistance, seconds 87	
Volume Resistivity, ohm-cm 1.5	×10 ¹⁴
Dielectric Constant / Dissipation Factor @ 25°C:	
100 Hz 4.2	80.0 \
1 kHz 4.0	/ 0.04
100 kHz 3.7	/ 0.03

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.

Note: Before using this product please purge approximately 30 ml. of material prior to application. Discard purged material in accordance with the Material Safety Data Sheet. A video instruction is available upon request.

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

(°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 psi x 145 = N/mm² MPa = N/mm² N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = 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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Reference 1

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