

LOCTITE STYCAST ES 0629

November 2016

PRODUCT DESCRIPTION

LOCTITE STYCAST ES 0629 provides the following product characteristics:

Technology	Epoxy
Appearance, Resin (Component A)	Black
Appearance, Hardener (Component B)	Amber
Appearance (cured)	Black
Components	Two components - requires mixing
Mix Ratio, by volume - Part A: Part B	100 : 46
Mixing Ratio, by weight Component A: Component B	100 : 38
Cure	Room temperature cure
Application	Potting

LOCTITE STYCAST ES 0629 is a two-component, thixotropic casting system used for general potting applications.

TYPICAL PROPERTIES OF UNCURED MATERIAL**Part A Properties**

Density, @ 25 °C, g/cm ³	1.29
Filler Content, %	24
Viscosity @ 25 °C, cps:	
Spindle 5, speed 20 rpm	12,700

Part B Properties

Density, @ 25 °C, g/cm ³	1.07
Filler Content, %	0
Viscosity @ 25 °C, cps:	
Spindle 4, speed 10 rpm	1,500

TYPICAL CURING PERFORMANCE Recommended Curing Conditions

24 hours @ 25°C (Recommended Cure)

2 hours @ 60 °C (Alternate Cure)

TYPICAL PROPERTIES OF CURED MATERIAL**Physical Properties :**

Glass Transition Temperature, °C	38
Coefficient of Thermal Expansion :	
Alpha 1(10 to 40°C), ppm	83
Alpha 1(75 to 160°C), ppm	187
Thermal Conductivity , W/(m-K)	0.28
Density, gm/cc	1.22
Shore Hardness , Durometer D	85
Tensile Strength, psi	2,869

Tensile Elongation, %	26.6
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Electrical Properties:

Dielectric Strength, 10 mil thickness, volts/mil	1,310
Arc Resistance, seconds	88
Dielectric Constant / Dissipation Factor @ 25°C:	
100 Hz	4.5 / 0.017
1 kHz	4.5 / 0.017
10 kHz	4.4 / 0.025
100 kHz	4.2 / 0.038

Volume Resistivity, ohm-cm	9.4×10 ¹⁴
Surface Resistivity, ohms @ 25°C	3.04×10 ¹⁵

Working Time, 265 gm mass, minutes	30 to 60
Gel Time, 25 gm mass @ 25°C, minutes	70 to 95
Viscosity, Brookfield - RVF, 25 °C, cps:	
Spindle 5, speed 20 rpm	5,100

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.

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:**

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