

LOCTITE STYCAST 2850CT

August 2018

PRODUCT DESCRIPTION

LOCTITE STYCAST 2850CT provides the following product characteristics:

Technology	Epoxy
Components	Two components - requires mixing
Appearance	Black paste
Mixing Ratio Comp. A : Comp. B	100 : 20 to 25
Product Benefits	<ul style="list-style-type: none"> • Good thermal conductivity • Good thermal shock resistance
Cure	Heat cure
Application	Encapsulation, Potting

TYPICAL PROPERTIES OF UNCURED MATERIAL

Mixed Properties

Mixed Viscosity @ 25 °C, mPa·s (cP)	5,500
Specific Gravity	2.0
Pot Life @ 25°C, hours	24
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

6 hours @ 100°C

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	35
Thermal Conductivity, , 10 ⁻⁴ cal/cm.sec.°C	19

Electrical Properties

Volume Resistivity, ohm-cm	2.2×10 ¹²
Dielectric Constant / Dissipation Factor@ 1 MHz	5.8/0.07

TYPICAL PERFORMANCE OF CURED MATERIAL

Miscellaneous:

Tensile Shear Strength , Al to Al, Kg/cm ²	20
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GENERAL INFORMATION

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

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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Reference 1