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LOCTITE

Technical Data Sheet

LOCTITE STYCAST US 5529

November 2016

PRODUCT DESCRIPTION

LOCTITE STYCAST US 5529 provides the following product characteristics:

Technology	Urethane
Appearance (cured)	Black
Components	Two components - requires mixing
Mix Ratio, by volume - Part A: Part B	1 : 4.81
Mixing Ratio, by weight Component A: Component B	15 : 85
Cure	Room temperature cure
Application	Potting and Encapsulating

LOCTITE STYCAST US 5529 is a flexible, flame retardant, mineral filled, polyurethane compound. This potting compound has long pot life, and is low viscosity so it flows well and adheres well to many substrates. It has very low odor and does not contain TDI or mercury compounds. Although LOCTITE STYCAST US 5529 is not UL recognized, it does have the same amount of flame retardant chemical as US5528, which is UL recognized.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Mixed Properties

Viscosity @ 23ºC, cPs	2,400
Working Time, 300 gm mass @ 23 °C, minutes	45
Gel Time, 300 gm mass @ 23 °C, minutes	90

TYPICAL CURING PERFORMANCE Recommended Curing Conditions

12 to 24 hours @ 22 to 30 °C (Recommended cure)

Alternative Curing Conditions

1 to 3 hours @ 65 to 85 °C (Alternate cure)

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties :

Density, gm/cc	1.5
Shore Hardness, , Durometer A	85
Coefficient of Thermal Conductivity, , W/(m-K)	0.335
Coefficient of Thermal Expansion, ppm/ºC	150
Moisture Absorption, 24 hrs @ 25ºC, %	0.01
Weight Loss after 168hrs @ 130ºC, %	0.004
Tensile Strength, psi	540
Flammability, 6.1mm, 94V-0	Passes
Flammability, 9.53mm, 94V-0	Passes

Electrical Properties:

Dielectric Strength, volts/mil	972
Dielectric Constant / Dissipation Factor @ 25ºC:	
100 kHz	4.0 / 0.04
Volume Resistivity, ohms-cm	4.5×10^{13}

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.

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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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