

LOCTITE STYCAST 2651-40 W1 GOLD CAT 9

May 2019

PRODUCT DESCRIPTION

LOCTITE STYCAST 2651-40 W1 GOLD CAT 9 provides the following product characteristics:

Technology	Ероху
Appearance (Resin)	Gold
Product Benefits	Low viscosity
	Room temperature cure capability
	 Can be used with a variety of catalysts
Cure	Room temperature or Heat cure
Application	Potting, Encapsulation
Key Substrates	Metals, Plastics and Ceramics

LOCTITE STYCAST 2651-40 W1 GOLD CAT 9 epoxy encapsulant is designed for general potting and encapsulation applications. When fully cured, the material is readily machined with carbide tools.

LOCTITE STYCAST 2651-40 W 1 GOLD with CAT 9 can be used with a variety of catalysts. For more information on mixed properties when used with other available catalysts, please contact your local technical service representative for assistance and recommendations.

TYPICAL UNCURED PROPERTIES

LOCTITE STYCAST 2651-40 W1 GOLD

Viscosity @ 25 °C, mPa·s (cP)	33,000
Density, g/cm ³	1.5
Shelf Life @ 18 to 25°C (from date of	365
manufacture), days	
Flash Point - See SDS	

TYPICAL UNCURED PROPERTIES AS MIXED LOCTITE STYCAST 2651-40 W1 GOLD with LOCTITE CAT 9

Mix Ratio, Material:Catalyst:	
By Weight	100:8 to 9
Pot Life, minutes	30
Flash Point - See SDS	

TYPICAL PROPERTIES OF CURED MATERIAL LOCTITE STYCAST 2651-40 W1 GOLD with LOCTITE CAT 9

	•
Physical Propertie	es

Hardness, Shore D	87.5
Thermal Conductivity , W/(m-K)	0.5
Coefficient of Linear Thermal Expansion, ppm/°C	78

Linear Shrinkage on Cure, % Moisture Absorption, 24 hrs immersion, % Machinability Operating temperature, °C	0.2 0.3 Good -40 to +175
Electrical Properties Volume Resistivity, minimum, ohm-cm Dielectric Constant / Dissipation Factor:	1×10 ¹⁴
Dielectric Constant / Dissipation Factor.	

@ 1 MHz3.8/0.06Dielectric Strength, kV/mm17.7

TYPICAL PERFORMANCE OF CURED MATERIAL

LOCTITE STYCAST 2651-40 W1 GOLD with LOCTITE CAT 9	
Miscellaneous	
Compressive Strength, MPa	125

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. LOCTITE STYCAST 2651-40 W1 GOLD CAT 9 with LOCTITE CAT 9 (Room Temperature cure)

- 1. Mix resin in the shipping container until it is uniform in texture. This will normally require 2 to 5 minutes in 1 or 5 gallon containers.
- 2. Mix 8 to 9 parts of LOCTITE CAT 9 for each 100 parts of LOCTITE STYCAST 2651-40 W1 GOLD CAT 9.
- 3. Blend thoroughly.
- 4. Pot life is about 30 minutes.
- 5. Keep LOCTITE CAT 9 away from contact with the skin.
- 6. Pour into mold or container. If necessary, trapped air is readily removed by vacuum evacuation..
- 7. Allow to stand at room temperature for 8 hours for handling or demolding. Full properties develop over the following 24 hours.
- Faster cured are possible with LOCTITE CAT 9 if oven cured. Cure time and temperature depend on mass and will vary due to other considerations. A typical schedule for a 50 gram casting is 1 hour @ 65°C.

STORAGE:

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



Optimal Storage : 18 to 25 °C

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.

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.

Conversions

 $(^{\circ}C \ge 1.8) + 32 = ^{\circ}F$ kV/mm x 25.4 = V/mil mm / 25.4 = inches N x 0.225 = lb/F 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.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

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. 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.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Corporation, Resin Technology Group, Inc., or Henkel Canada Corporation, the following disclaimer is applicable:

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage: [Except as otherwise noted] All trademarks in this document are trademarks and/or registered trademarks of Henkel and its affiliates in the U.S. and elsewhere.

Reference 4