

LOCTITE® STYCAST PC 62

December 2020

PRODUCT DESCRIPTION

LOCTITE® STYCAST PC 62 provides the following product characteristics:

Technology	Acrylic
Appearance	Colorless
Components	One
Product Benefits	• Fluorescent under UV light • Provides environmental and mechanical protection • Toluene-free alternative • Superior toughness and abrasion resistance • Easily removable with soldering iron or suitable solvent
Solids Content, %	23 to 26
Cure	Air dry
Application	Conformal coating
Operating Temperature Continuous	-40 to 125°C
Typical Assembly Applications	Printed circuit board

LOCTITE® STYCAST PC 62 conformal coating is a rapid drying acrylic for circuit board protection applications.

TYPICAL PROPERTIES OF UNDRIED MATERIAL

Viscosity, Brookfield - LV, 25 °C, cps:	
Spindle 1, speed 30 rpm	52
Specific Gravity @ 25°C	0.82
Tack Free Time:	
~25°C/~35% RH (120µm wet film), minutes	<5
Flash Point - See SDS	

TYPICAL DRYING PERFORMANCE

Recommended Drying Conditions

24 hours @ 25°C

Alternative Drying Conditions

45 minutes @ 75°C

Drying of the coating depends upon solvent evaporation. For optimum performance, boards should be dried at least 30 minutes at 25°C to remove solvents before final drying in oven (or before applying additional coats).

Drying temperatures higher than recommended could cause formation of bubbles if bulk solvent is not allowed to evaporate before placing in oven. Optimization of the drying schedule may be possible to reduce the times stated above. Ultimately, drying times will depend on film thickness and circuit board design. It is therefore imperative to verify the drying schedule for each

applications. Deaeration is not suggested due to a risk of solvent loss.

TYPICAL PROPERTIES OF DRIED MATERIAL

Physical Properties

Film Thickness (Adjustable), µm 25 to 100

Electrical Properties

Insulation Resistance, ohms:	
(50µm film, 25°C / 50% RH)	>2.3×10 ¹⁴
Volume Resistivity, ohms-cm	1.04×10 ¹⁶
Dielectric Strength, volts/mil	2,000
Dielectric Constant / Dissipation Factor @ 100 KHz	2.29 / 0.12

TYPICAL ENVIRONMENTAL RESISTANCE

Fungus Resistance per ASTM G21 Non nutrient

GENERAL INFORMATION

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

DIRECTIONS FOR USE

Application

1. Clean substrate to promote adhesion and prevent underfilm corrosion of copper conductors.
2. Apply via non-atomised selective film coater.
3. Verify compatibility with other assembly components (e.g. solder paste and flux).

Cleaning

1. Remove wet or dry LOCTITE® STYCAST PC 62 with Xylene or Methyl ethyl ketone (MEK). A suitable solvent is available from your local Henkel 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.

STORAGE

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

Optimal Storage: 5°C to 30°C. Storage below 5°C or greater than 30°C can adversely affect product properties.

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 Henkel Representative.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\text{N} \times 0.225 = \text{lb/F}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{psi} \times 145 = \text{N/mm}^2$
 $\text{MPa} = \text{N/mm}^2$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

Disclaimer

Note:

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, Inc. 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 of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference 2