

LOCTITE STYCAST 1264J Parts AB

August 2013

PRODUCT DESCRIPTION

LOCTITE STYCAST 1264J Parts AB provides the following product characteristics:

Technology	Epoxy
Appearance, Resin (Component A)	Clear liquid
Appearance, Hardener (Component B)	Clear liquid
Components	Two component - requires mixing
Mixing Ratio, by weight Component A: Component B	100 : 45
Product Benefits	<ul style="list-style-type: none"> • Low viscosity • High impact strength • Improved toughness • Thermal shock resistant • Cures at ambient or elevated temperatures
Cure	Room Temperature or Heat Cure
Application	Encapsulant, Potting
Typical Assembly Applications	Laminating
Operating Temperature	120°C

LOCTITE STYCAST 1264J Parts AB cures slightly flexible and virtually stress free. Some darkening of the cured material will occur after long exposure to temperatures above 65°C or after prolonged exposure to sunlight. LOCTITE STYCAST 1264J Parts AB is designed for laminating sheets of glass for implosion resistant safety shields for cathode ray tubes and vacuum viewing ports.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Part A Properties

Viscosity @ 25 °C, mPa·s (cP)	8,500
Specific Gravity @ 25°C	1.21
Flash Point - See MSDS	

Part B Properties

Viscosity @ 25 °C,	35
Specific Gravity @ 25°C	1
Flash Point - See MSDS	

Mixed Properties

Pot life @ 25 °C, 100 gram mass, hours	3
Shelf Life @ 18 to 25°C (from date of manufacture), days	365
Flash Point - See MSDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

48 hours @ 25°C
8 hours @ 43°C
3 hours @ 65°C

This product may generate excessive heat if cured in thicknesses greater than 25 mm (1 inch) at a temperature above 25°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 D @ 25 °C	83
Glass Transition Temperature, °C	40
Coefficient of Linear Thermal Expansion, ppm/°C:	
Below Tg	71
Above Tg	153
Water Absorption @ 25 °C, ASTM D570, %:	
After 24 hours immersion	0.3
After 7 days immersion	0.8

Electrical Properties

Volume Resistivity, ohm-cm	1×10 ¹⁵
----------------------------	--------------------

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. Accurately weigh resin and hardener into a clean container in the recommended ratio. Weighing apparatus having an accuracy in proportion to the amounts being weighed should be used.
2. For proper results, the weight ratio should be ± 3%.
3. Mix each component well prior to weighing to assure uniform consistency..
4. If Part A is cloudy, warm to 50°C until it becomes clear.
5. Pour mixture into cavity or mold.
6. Complete cleaning of the substrates should be performed to remove contamination such as oxide layers, dust, moisture, salt and oils which can cause poor adhesion or corrosion in a bonded part.
7. In the event that release from the mold is desired, a coating of paste wax or a silicone mold release such as MOLD RELEASE 122S is recommended.

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 in original, tightly covered containers in clean, dry areas. Storage information may be indicated on the product container labeling.

Optimal Storage: 18 to 25°C. Storage below 18°C or greater than 25°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 Technical Service Center or Customer Service Representative.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$

$\text{kV/mm} \times 25.4 = \text{V/mil}$

$\text{mm} / 25.4 = \text{inches}$

$\text{N} \times 0.225 = \text{lb}$

$\text{N/mm} \times 5.71 = \text{lb/in}$

$\text{N/mm}^2 \times 145 = \text{psi}$

$\text{MPa} = \text{N/mm}^2$

$\text{MPa} \times 145 = \text{psi}$

$\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$

$\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$

$\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$

$\text{mPa}\cdot\text{s} = \text{cP}$

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

Reference 0.0