

LOCTITE[®] EA 9492LI

February 2021

PRODUCT DESCRIPTION

LOCTITE® EA 9492LI provides the following product characteristics:

Ероху
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Modified Amine
White opaque paste
Grey, opaque liquid
White opaque paste
Two part - Resin & Hardener
2:1
100 : 50
Room temperature cure after mixing
Bonding & Potting
 Very low outgassing
 High temperature resistance
Excellent solvent resistance

LOCTITE® EA 9492LI is a high temperature resistant, two component epoxy adhesive. It is an improved safety profile version of Loctite EA 9492, and retains the high performance features of this product. It is a general purpose adhesive that bonds and repairs a wide variety of materials; suitable for the potting or encapsulations of boxes, parts, devices. Fully cured LOCTITE® EA 9492LI bonds offer superior thermal shock resistance, mechanical, electrical and impact resistant properties.

TYPICAL PROPERTIES OF UNCURED MATERIAL **Resin Properties**

Specific Gravity @ 25 °C, g/mL 1.52 to 1.56

Viscosity, Brookfield - RVT, 25 °C, mPa·s (cP):

Spindle 6, speed 5 rpm 50,000 to 120,000

Viscosity, DIN 54453, mPa·s (cP):

Shear rate 10 s-1 45,000 Shear rate 100 s⁻¹ 34,000

Flash Point - See SDS

Hardener Properties

Specific Gravity @ 25 °C, g/mL 1.5 to 1.58

Viscosity cone plate 4 cm, STM 738,

20,000 to 45,000 @ 25°C and 40 s⁻¹, mPa·s (cP)

Flash Point - See SDS

TYPICAL CURING PERFORMANCE

Mixed Properties

Pot Life 22°C, minutes, 10 to 30

100 g mass

Pot Life 100°C, minutes, 6

100 g mass

Fixture Time

Fixture time is defined as the time to develop a shear strength of 0.1 N/mm².

Fixture Time, mixed, @ 22°C, minutes 75 Thin film Set (500microns film, RT, on 90 glass strips), minutes

Shore D hardness, 7d RT, shore D unit 85 DSC Tg, 2nd scan, °C 95

TYPICAL PERFORMANCE OF CURED MATERIAL **Adhesive Properties**

Cured for 1 day @ RT + 1 day @ 65°C Aluminum (grit blasted) >13

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

Residues of mixed product, before complete cure has occurred, can be washed out from surfaces, clothes, hands by simply washing with warm soapy water.

Material Safety Data Sheet (MSDS) for EA 9492 Part A and EA 9492LI Part B are available.

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

Where aqueous washing systems are used to clean the surfaces before bonding, it is important to check for compatibility of the washing solution with the adhesive.



Directions for use

- For best performance surfaces for bonding should be clean, dry and free of grease. For high strength structural bonds, special surface treatments can increase the bond strength and durability.
- 2. To use, resin and hardener must be blended. Product can be applied directly from dual cartridges by dispensing through the mixer head supplied. Discard the first 3 to 5 cm of bead dispensed. Using bulk containers, mix thoroughly by weight or volume in the proportions specified in the Product Description Matrix. For hand mixing, weigh or measure out the desired amount of resin and hardener and mix thoroughly. Mix approximately 15 seconds after uniform color is obtained.
- It is recommended that this product is not mixed and cured in bulk quantities of greater than 0.5 kg as excessive heat build-up can occur. Mixing smaller quantities will minimize the heat build-up.
- 4. Apply the adhesive as quickly as possible after mixing to one surface to be joined. For maximum bond strength apply adhesive evenly to both surfaces. Parts should be assembled immediately after mixed adhesive has been applied.
- For working life please see section 'Typical Properties of Uncured Material'. Higher temperatures and larger quantities will shorten this working time.
- 6. Excess uncured adhesive can be wiped away with organic solvent (e.g. Acetone).
- Keep the assembled parts from moving during cure. The joint should be allowed to develop full strength before subjecting to any service loads.
- After use and before adhesive hardens, mixing and application equipment should be cleaned with hot soapy water.

Please, refer to a Henkel Engineer for further information.

Storage

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

Optimal Storage: 8 °C to 28 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties. Shelf life: 1 year.

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.

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

(°C x 1.8) + 32 = °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

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