Technical Data Sheet

LOCTITE® AA 3495™

Known as LOCTITE® 3495
June 2014

PRODUCT DESCRIPTION

LOCTITE® AA 3495™ provides the following product characteristics:

Technology	Acrylic
Chemical Type	Acrylic
Appearance	Transparent liquid[LMS]
Viscosity	Medium
Components	One component - requires no mixing
Cure	Ultraviolet (UV)/ visible light
Application	Glass bonding

LOCTITE® AA 3495™ is specifically designed for bonding glass to itself and to a variety of other surfaces. The product cures in seconds upon exposure to suitable ultraviolet or visible radiation to form an impact resistant bond which exhibits excellent resistance to prolonged humidity or water immersion. LOCTITE® AA 3495™ has been formulated for bonding and sealing or potting applications of glass to itself or other materials, such as decorative glass, molded glass tableware items, automotive window latches or lighting components.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25°C, mPa·s (cP) 1,500 to 4,500[LMS]
Cone & Plate Rheometer:
Haake PK 100, M10/PK 1 2° Cone

Flash Point - See SDS

TYPICAL PERFORMANCE OF CURED MATERIAL

Adhesive Properties

Tensile Strength, ISO 6922:
Grit blasted mild steel pin to Glass N/mm² ≥8[LMS]
(psi) (1,160)

TYPICAL ENVIRONMENTAL RESISTANCE

Chemical/Solvent Resistance

Aged under conditions indicated and tested @ 22 °C

		% of initial strength		
Environment	**°C**	**100 h**	**500 h**	**1000 h**
95% RH	60	210	125	115

Dishwasher Cycle Resistance

Aged at continuous dishwasher cycling and tested at 22°C
Tensile Strength, ISO 6922:
Stainless Steel to Glass
After 40 cycles N/mm² 8.8
(psi) (1,280)
After 50 cycles N/mm² 10
(psi) (1,450)

Thermal Cycling

-25°C to 70 °C @2°C/min, 2.5 hours dwell time, tested @ 22°C
Tensile Strength, ISO 6922:
Stainless Steel to Glass
After 6 cycles N/mm² 16
(psi) (2,310)
After 10 cycles N/mm² 19
(psi) (2,810)

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.

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

Directions for use:

1. This product is light sensitive; exposure to daylight, UV light and artificial lighting should be kept to a minimum during storage and handling.
2. The product should be dispensed from applicators with black feedlines.
3. For best performance bond surfaces should be clean and free from grease.
4. Cure rate is dependent on lamp intensity, distance from light source, depth of cure needed or bondline gap and light transmittance of the substrate through which the radiation must pass.
5. Recommended intensity for cure in an adhesive application (between substrates) is 40mW/cm² minimum (measured at the bondline) with an exposure time of 5-6 times the fixture time at this same intensity.
6. For tack free surface cure, as necessary in coating, potting or tacking applications, higher intensity UV is required (100mW/cm² minimum).
7. Cooling should be provided for temperature sensitive substrates such as thermoplastics.
8. Plastic grades should be checked for risk of stress cracking when exposed to liquid adhesive.
9. Excess adhesive can be wiped away with organic solvent.
10. Bonds should be allowed to cool before subjecting to any service loads.

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 21 °C. Storage below 8 °C or greater than 28 °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.

Loctite Material Specification[LMS]

LMS dated June 24, 2004. Test reports for each batch are available for the indicated properties. LMS test reports include selected QC test parameters considered appropriate to specifications for customer use. Additionally, comprehensive controls are in place to assure product quality and consistency. Special customer specification requirements may be coordinated through Henkel Quality.

Conversions

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

Reference 0.0