Laboratory Data Sheet

LOCTITE® AA 3937™

ALSO KNOWN AS MO3752-127

Jan. 2026

PRODUCT DESCRIPTION

LOCTITE® AA 3937™ provides the following product characteristics:

Technology	Acrylic
Chemical Type	UV Acrylic
Appearance	Transparent, clear with yellow tinge
Fluorescence	Blue under UV light
Viscosity	High
Cure	Ultraviolet (UV)/ visible light
Application	Bonding
Specific Benefits	Fast cure High viscosity Fluorescence Flexible High adhesion Sterilization resistance

LOCTITE AA 3937 is a high viscosity light cure acrylic that cures in the presence of UV and visible light. LOCTITE AA 3937 is suitable for a wide variety of applications that require fast cure, flexibility, high adhesion and sterilization resistance. The ability of this product to fluoresce under black light facilities inspection of bonded assemblies for adhesive presence. This product is designed for bonding stainless steel cannula and plastic hubs, syringes and lancets for needle assemblies. This product is also suitable for bonding a variety of catheter assemblies, tube sets and other disposable medical devices where medium viscosity is desired. The viscosity of this product makes the adhesive well suited for applications where the adhesive will be dispensed on the cannulae before assembly with the hub, needles with large gaps to minimize the potential for blocking cannulae.

Note: LOCTITE AA 3937 is a variation of LOCTITE AA 3936.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25°C	1.1
Viscosity, Brookfield	
RVT, @ 25°C, mPa.s (cP)	
Spindle 4, Speed 20 rpm	9,000

TYPICAL CURING PERFORMANCE

Fixture Time

Fixture time is defined as the time to develop a shear strength of 0.1 N/mm² (14.5 psi)

UV Fixture Time, Glass Microscope Slides, seconds:

LOCTITE CL30 LED, 405nm	
6 mW/cm², measured @ 405 nm	< 5

Depth of Cure

The data below shows the depth of cure as measured from the thickness of the cured product.

LOCTITE® CL30 LED, 405nm	
800 mW/cm² for 5s	1.65 mm

TYPICAL PERFORMANCE OF CURED MATERIAL

Cured @ 800 mW/cm², measured @ 405nm, for 30 seconds using a LOCTITE CL30 LED, 405nm.

Adhesive Properties

Cured @ 1000 mW/cm², measured @ 405nm, for 10 seconds using a LOCTITE CL30 LED or Loctite CL42 LED, 405nm.

Block Shear Strength, ISO 13445:		
Polycarbonate	N/mm²	8.4
	(psi)	(1,200)
Acrylic	N/mm²	6.9
	(psi)	(1,000)

Needle Pullout Strength, N (lb):	**22 Gauge Cannula**	**27 Gauge Cannula**
ABS	140 (31.5)	70 (16)
Polypropylene (Plasma Treated)	85 (19)	80 (18)

TYPICAL ENVIRONMENTAL RESISTANCE

Cured @ 1000 mW/cm², measured @ 405 nm, for 10 seconds using a LOCTITE CL30 LED, 405nm.

Typical Accelerated Aging Conditions

Needle Pullout Strength

Aged @ 60°C and tested @ 22°C

Needle Pullout Strength, % of initial strength	**4 weeks**	**8 weeks**
ABS:		
22 Gauge Cannula	50	55
27 Gauge Cannula	30	40
Polypropylene (Plasma treated):		
22 Gauge Cannula	95	125
27 Gauge Cannula	85	75

Aged @ 60°C & 50%RH and tested @ 22°C

Needle Pullout Strength, % of initial strength	**4 weeks**	**8 weeks**
ABS:		
22 Gauge Cannula	90	55
27 Gauge Cannula	35	20
Polypropylene (Plasma treated):		
22 Gauge Cannula	70	45
27 Gauge Cannula	75	35

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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. Cooling should be provided for temperature sensitive substrates such as thermoplastics.
6. Plastic grades should be checked for risk of stress cracking when exposed to liquid adhesive.
7. Excess adhesive can be wiped away with organic solvent.
8. 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 also be indicated on the product container labelling.
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 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 Henkel representative.

Product Specification

The technical data contained herein are intended as reference only and are not considered specifications for the product. Product specifications are located on the Certificate of Analysis or please contact Henkel representative.

Approval and Certificate

Please contact Henkel representative for related approval or certificate of this product.

Data Ranges

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23 °C / 50% RH = 23±2 °C / 50±5% RH

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

Disclaimer

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