



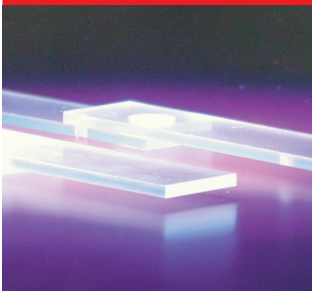
STRONG, DURABLE *and Rigid Bonds*



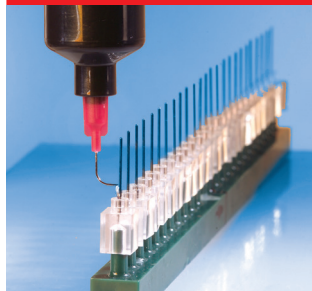
LOCTITE® AA 3961 AND LOCTITE® AA 3963 LED LIGHT CURE ADHESIVES provide high strength, durability and rigidity, with fast, tack-free curing. Specially designed for LED curing technology and minimizing cure times, they maximize production efficiency.



**High Strength
& Durability**



**Low
Viscosity**



**LED Curable
(Fast & Tack-Free)**



**Highly
Fluorescent**



To learn more about Henkel's newest light cure innovations
visit na.henkel-adhesives.com/medicaladhesives
or call us at: **1.800.LOCTITE (562.8483)**

They have been tested to Henkel's protocols based upon ISO-10993 biocompatibility standards, *with certificates available on request*. These medical device adhesives are ideally suited for the assembly of a variety of devices including, but not limited to:

- Blood collection sets
- Syringes & lancets
- Drug delivery devices
- Anesthesia, epidural & insulin syringes
- Blood oxygenators
- Blood filters
- Heat exchangers
- Blood bowls
- Manifolds
- Blood pressure transducers

TYPICAL SUBSTRATES:

- Stainless Steel, Nitinol, Polycarb, Acrylic, ABS, PP (plasma treated), HDPE (plasma treated).

OTHER COMPATIBLE SUBSTRATES:

- TPE (TPU, Pebax, Hytrel), Plasticized PVC, Thermoset rubber

TYPICAL PROPERTIES†

Products	Item number	Container size	Appearance [uncured]	Fluorescence [uncured/cured]	Viscosity [mPa-s]	Fixture speed with 405 nm led curing system [secs]	Shear strength on polycarbonate blocks	Needle pullout strength on polycarbonate hubs & 27 gauge ss needle	Shore hardness [shore d]
AA 3961™	2464890	25 ml Syringe	Clear, colorless	Yes	60	< 5	3,200 psi 22.1 N/mm ²	34 LB-F* 151 N*	71
	2464891	1 Liter Bottle							
AA 3963™	2483476	25 ml Syringe	Clear, colorless	Yes	300	< 5	3,300 psi 22.7 N/mm ²	36 LB-F* 162 N*	72
	2483477	1 Liter Bottle							

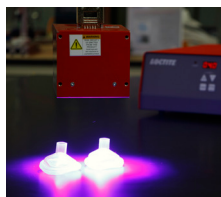
† Estimated values. Please consult the LOCTITE® TDS for additional data and details.

* Primarily substrate failure of the SS cannula.



SURFACE TREATMENT:

Polyolefins such as polyethylene (PE) and polypropylene (PP) are often used for disposable medical devices due to their low cost and versatile properties. Since PE and PP are difficult-to-bond plastics, it is common to treat the plastic before assembly to increase the pull strength. Corona, plasma and other pretreatment methods have been shown to increase bond strengths on difficult-to-bond materials when using **LOCTITE® AA 3961™ or AA 3963™**.



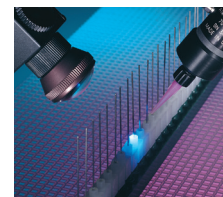
CURING

LOCTITE® AA 3961™ and AA 3963™ can be cured with UV or visible light. Henkel's newest LED curing units are ideally suited for rapid curing of select Henkel adhesives. See www.equipment.LOCTITE.com for more details.



DISPENSING

LOCTITE® AA 3961™ and AA 3963™ can be dispensed manually or with LOCTITE® semi-automated and fully automated systems. See www.equipment.LOCTITE.com for more details.



DETECTION

LOCTITE® AA 3961™ and AA 3963™ contain fluorescent additives allowing for detection in the uncured or cured state. Detection can be accomplished with a simple black light or with vision systems.

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