

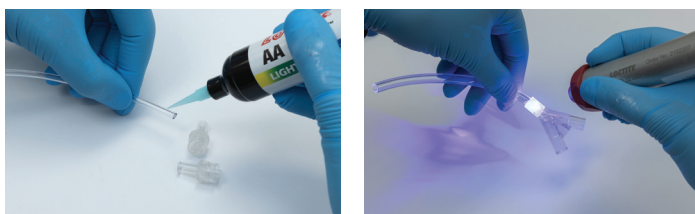








# MEDICAL DEVICE ADHESIVE SOLUTIONS FOR TPE ASSEMBLIES

## INTRODUCING LOCTITE® AA 3952™ AND LOCTITE SI 5057™

The use of Thermoplastic Elastomers (TPEs), in particular TPE-S and TPE-O, are increasing in usage in medical devices due to their versatility in formula and performance, and moderate cost. These alternative TPE materials can present challenges in adhesion and bonding performance, often requiring pretreatment such as primer, plasma, etc.

New LOCTITE AA 3952 and LOCTITE SI 5057 medical device light-cure adhesives provide—without surface pretreatment—enhanced adhesion and bonding performance to TPE-O, TPE-S, and other challenging elastomers. These new adhesive solutions are designed to address the broad range of TPE materials ranging from semi-flexible to highly flexible, and are tested to Henkel’s test protocols based on ISO 10993 biocompatibility standards.



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**Enhanced Adhesion**  
 Enhanced adhesion to rigid, flexible, and highly flexible low-polarity elastomers
- 
**Low-Viscosity**  
 Low-viscosity for narrow bond-lines and for pre- and post-application
- 
**Faster Processing**  
 LED light-curing for fast processing with short cure times
- 
**Easy Detection**  
 Fluorescence for detection of adhesive presence and flow control
- 
**Biocompatible**  
 Tested to Henkel’s test protocols based on ISO 10993 biocompatibility standards
- 
**Enhanced Safety**  
 Formulated without known hazardous ingredients

# LOCTITE® AA 3952™ & LOCTITE SI 5057™

## LOCTITE AA 3952

Low-viscosity, UV/VIS, light-curing acrylic adhesive. It offers typical acrylate hardness and cure speed. It is designed to bond difficult-to-bond flexible and rigid materials, like thermoplastic elastomers such as TPE-S, TPE-O, and PEBA.

- Acrylate properties
- Flexible
- Enhanced adhesion to TPE-S, TPE-O and PEBA

## LOCTITE SI 5057

Low-viscosity, UV/VIS, light-curing silicone adhesive. It offers the softness and elongation of a silicone, and provides good adhesion to low and very-low polarity flexible and highly flexible materials, like TPE-S, and TPE-O thermoplastic elastomers, silicones, or flexible PP.

- Silicone properties
- Highly flexible
- Enhanced adhesion to TPE-S, TPE-O, and other low-polarity elastomers and silicones



## KEY PERFORMANCE PROPERTIES\*

FEATURES	LOCTITE AA 3952	LOCTITE SI 5057
CHEMISTRY	UV/VIS LIGHT-CURE ACRYLIC	UV/VIS LIGHT-CURE SILICONE
APPEARANCE	TRANSPARENT CLEAR	TRANSPARENT CLEAR
VISCOSITY 25°C, mPa·s (cP)	600 (NOMINAL)	750 (NOMINAL)
SHORE HARDNESS	SHORE D 62	SHORE A 60
ELONGATION, AT BREAK	90	211

## ORDERING INFORMATION

PRODUCT	SIZE	IDH
LOCTITE AA 3952	25 ML SYRINGE	3002367
	1 L BOTTLE	3005406
LOCTITE SI 5057	25 ML SYRINGE	2997612
	1 L BOTTLE	2997611



## DISPENSING

LOCTITE AA 3952 and LOCTITE SI 5057 can be applied with LOCTITE dispensing equipment designed for manual, semi-automated, and fully-automated operations.



## CURING

LOCTITE AA 3952 and LOCTITE SI 5057 can be cured with UV or Visible light. The newest LOCTITE LED-curing units are ideally suited for rapid curing of Henkel's light-curing adhesives.

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