

Versatile Loctite® brand ultraviolet (UV) and visible light curing adhesives can be used in bonding, encapsulating, coating, tacking and sealing applications. These single-component, solvent-free products cure in seconds when exposed to UV/visible light sources. Some light cure adhesives can be combined with activator curing methods to meet specific application requirements.

# BONDING

## LIGHT CURE ADHESIVES

### ACRYLIC ADHESIVES

#### Loctite® 352™ Light Cure Adhesive

A high viscosity adhesive that creates a tough, flexible bond resistant to vibration and shock. Effective on a wide range of materials. Cures in minutes using an activator, UV light, or both.

#### Loctite® 3103™ Light Cure Adhesive

Thixotropic, flexible, low modulus, medium viscosity, UV/visible light cure adhesive for flexible bonds and reduced stress cracking on plastics. Cures through UV blocked and tinted substrates. Also for potting, sealing, and gap filling.

#### Loctite® 3105™ Light Cure Adhesive

A high strength, low viscosity, UV/visible light cure adhesive. Primarily designed for bonding rigid and flexible PVC to polycarbonate. Enables easy assembly of components with close-fitting tolerances. Recommended for applications involving small gaps less than 0.25 mm.

#### Loctite® 3106™ Light Cure Adhesive

A high strength, medium viscosity, thixotropic, UV/visible light cure adhesive. Designed primarily for bonding rigid and flexible PVC to polycarbonate where large gap filling capabilities and a flexible joint are desired.

#### Loctite® 3107™ Light Cure Adhesive

A low viscosity, UV/visible light cure adhesive for difficult-to-bond plastics including plasticized PVC. Very rapid cure. Flexible and fluorescent.

#### Loctite® 3108™ Light Cure Adhesive

A low durometer, rubbery, UV cure adhesive for potting and sealing of plastic, glass, and metal. Very flexible and resilient.

#### Loctite® 3175™ Light Cure Adhesive

A solvent free adhesive designed for applications where a rapid cure and a dry-to-the-touch surface are required. Excellent for tacking and coating. Good adhesion to plastics.

### Loctite® 3491™ Light Cure Adhesive

A fast curing, medium viscosity adhesive designed for bonding glass-to-glass and to a variety of other surfaces.

### Loctite® 3492™ Light Cure Adhesive

A fast curing, low viscosity adhesive designed for bonding glass-to-glass and to a variety of other surfaces.

### Loctite® 3494™ Light Cure Acrylic

A durable, visible/UV cure, medium viscosity adhesive designed for glass and metal bonding.

### Loctite® 3525™ Light Cure Adhesive

A visible/UV cure, high viscosity adhesive. Fast cure, colorless bonds. Excellent flexibility, toughness, and durability to moisture exposure. Fluorescent. Used to bond glass, metal, and plastics.

### Loctite® 3526™ Light Cure Acrylic

A visible/UV/heat cure version of 3525. All the properties of 3525 plus low temperature rapid heat cure capabilities (250°F). Fast cure even under low energy sources. Fluorescent.



## CYANOACRYLATE ADHESIVES



### Loctite® 4306™/4307™ Flashcure® Light Cure Adhesive

#### *Instant*

New patented technology. One-component, low or high viscosity fluorescent adhesives. Specifically formulated for extremely rapid UV or visible light cure and secondary cyanoacrylate cure mechanism. Eliminates the need for solvent-based accelerators.

## EPOXY ADHESIVES

### Loctite® 3335™ Light Cure Adhesive

#### *UV Cationic Epoxy*

A one-part, medium viscosity, cationic epoxy. Excellent for surface cure – no oxygen inhibition. Low outgassing, very good high temperature resistance. Rigid, low shrinkage.

### Loctite® 3336™ Light Cure Adhesive

A UV cure, medium viscosity, two-part epoxy. UV cure effects fast gelation. Complete cure at room temperature or heat cure. Tough and durable. Designed for potting, bonding, and sealing.

### Loctite® 3337™ Light Cure Adhesive

#### *UV Cationic Epoxy*

A one-part, medium viscosity cationic epoxy. Excellent for surface cure with low shrinkage and low outgassing. Use for bonding, coating, tacking applications on metal, plastic, or glass substrates.

### Loctite® 3340™ Light Cure Adhesive

#### *UV Cationic Epoxy*

A UV cure, one-part, medium viscosity cationic epoxy. Exhibits good thermal, water, and chemical resistance with metal, plastic and glass substrates.

## SILICONE ADHESIVES

### Loctite® 5088™ Nuva-Sil® Silicone Potting Compound

A non-corrosive, UV curing silicone for high speed shallow potting of sensitive substrates.

### Loctite® 5091™ Nuva-Sil® Silicone Potting Compound

#### *High Adhesion*

A UV curing silicone for high speed shallow potting, coating, and sealing applications. High adhesion for difficult-to-bond substrates.


### Loctite® 5092™ Nuva-Sil® Silicone Potting Compound

#### *High Adhesion*

A non-corrosive, UV curing silicone for high speed shallow potting, coating, and sealing applications. Excellent adhesion to engineering plastics, gold, brass, and tin-plated leads.

LOCTITE® BRAND LIGHT CURE  
ACRYLIC ADHESIVES  
PROPERTIES CHART



PRODUCT	Item Number	Container	Appearance Clarity/Color	Cure Type	Key Substrates	Viscosity, cP Brookfield, 25°C	Elongation at Break, %	Shore Hardness	Temperature Range
349™ Impruv®	34931 34990	50 ml bottle 1 liter bottle	Clear/ straw	Ultraviolet	Glass, metal	9,500	300	D 70	-65°F to 300°F
352™	35241 35286	50 ml bottle 1 liter bottle	Clear/ light amber	Ultraviolet, heat, activator	Glass, metal	19,500	290	D 60	-65°F to 300°F
363™ Impruv®	36331 36390	50 ml bottle 1 liter bottle	Clear/ pale straw	Ultraviolet	Metal, thermoset plastic	250	88	D 50	-65°F to 300°F
366™ 	36631 12224	50 ml bottle 1 liter bottle	Clear/ light amber	Ultraviolet, heat, activator	Glass, metal	7,500	240	D 45	-65°F to 225°F
3100™	19862	25 ml syringe	Slightly hazy/ straw	Ultraviolet, visible	Glass, metal, thermoset plastic	6,000	210	D 66	-65°F to 300°F
3101™	19861	25 ml syringe	Slightly hazy/ straw	Ultraviolet, visible, heat, activator	Glass, metal, thermoset plastic	6,000	220	D 66	-65°F to 300°F
3102™	23690	1 liter bottle	Clear/ pale straw	Ultraviolet, visible	Polycarbonate, thermoplastic	3,750	265	D 59	-65°F to 300°F
3103™ 	23691 23692	25 ml syringe 1 liter bottle	Clear/ pale straw	Ultraviolet, visible	Polycarbonate, thermoplastic	10,000 Thixotropic	260	D 51	-65°F to 300°F
3104™	23694 23693	25 ml syringe 1 liter bottle	Clear/ pale straw	Ultraviolet, visible	Polycarbonate, thermoplastic, polyvinylchloride	160	50	D 69	-65°F to 300°F
3105™	23695 23696	25 ml syringe 1 liter bottle	Clear/ pale straw	Ultraviolet, visible	Polycarbonate, thermoplastic, polyvinylchloride	300	265	D 64	-65°F to 300°F
3106™ 	23697 23698	25 ml syringe 1 liter bottle	Clear/ pale straw	Ultraviolet, visible	Polycarbonate, thermoplastic, polyvinylchloride	5,000	250	D 53	-65°F to 300°F
3107™	28419 28466	6 ml tube 1 liter bottle	Clear/ straw/ fluorescent	Ultraviolet, visible	Plasticized PVC, thermoplastic	500	220	D 27	-65°F to 300°F
3108™	28400 28465	25 ml syringe 1 liter bottle	Translucent/ colorless	Ultraviolet	Thermoplastic, thermoset plastic	5,100	330	A 72	-65°F to 300°F
3175™	29505 29506	25 ml syringe 1 liter bottle	Clear/ straw	Ultraviolet	Various	4,000	14	D 70	-65°F to 300°F
3491™ 	28366 17944	25 ml syringe 1 liter bottle	Clear/ pale straw	Ultraviolet	Glass, metal	1,100	27	D 75	-65°F to 300°F
3492™	28367 18666	25 ml syringe 1 liter bottle	Clear/ pale straw	Ultraviolet	Glass, metal	500	5	D 79	-65°F to 300°F
3493™	28368 18751	25 ml syringe 1 liter bottle	Clear/ pale straw	Ultraviolet	Glass, metal	5,500	260	D 75	-65°F to 300°F
3494™	30765 29487	25 ml syringe 1 liter bottle	Clear/ pale straw	Ultraviolet, visible	Glass, metal	5,500	190	D 65	-65°F to 300°F
3525™	30220 30221	25 ml syringe 1 liter bottle	Clear/ pale straw/ fluorescent	Ultraviolet, visible	Glass, metal, thermoset plastic	15,000	260	D 60	-65°F to 300°F
3526™	30756 30764	25 ml syringe 1 liter bottle	Clear/ pale straw/ fluorescent	Ultraviolet, visible, heat	Glass, metal, thermoset plastic	17,800	185	D 62	-65°F to 300°F
3751™ LiteTak®	21362 21363	25 ml syringe 1 liter bottle	Clear/ colorless	Ultraviolet	Various	10,000	50	D 73	-65°F to 300°F
3761™ LiteTak®	21359 21360	25 ml syringe 1 liter bottle	Clear/ straw	Ultraviolet	Various	2,500	57	D 69	-65°F to 300°F

 Indicates worldwide availability.



LOCTITE® BRAND LIGHT CURE ADHESIVES (CYANOACRYLATE) PROPERTIES CHART

PRODUCT	Item Number	Container	Appearance Clarity/Color	Cure Type	Key Substrates	Viscosity, cP Brookfield, 25°C	Elongation at Break, %	Shore Hardness	Temperature Range
4304™ Flashcure®	32254 32407	1 oz. bottle 1 lb. bottle	Clear/ pale green	Ultraviolet, visible, moisture	Elastomer, metal, polycarbonate, thermoplastic	20	9	D 72	-65°F to 180°F
4305™ Flashcure®	32268 32409	1 oz. bottle 1 lb. bottle	Clear/ pale green	Ultraviolet, visible, moisture	Elastomer, metal, polycarbonate, thermoplastic	900	6	D 77	-65°F to 180°F
4306™ Flashcure® <b>NEW</b>	37439 37442	1 oz. bottle 1 lb. bottle	Clear/ pale green/ fluorescent	Ultraviolet, visible, moisture	Elastomer, metal, polycarbonate, thermoplastic	20	9	D 72	-65°F to 180°F
4307™ Flashcure® <b>NEW</b>	37441 37443	1 oz. bottle 1 lb. bottle	Clear/ pale green/ fluorescent	Ultraviolet, visible, moisture	Elastomer, metal, polycarbonate, thermoplastic	900	6	D 77	-65°F to 180°F


LOCTITE® BRAND LIGHT CURE ADHESIVES (EPOXY) PROPERTIES CHART

PRODUCT	Item Number	Container	Appearance Clarity/Color	Cure Type	Key Substrates	Viscosity, cP Brookfield, 25°C	Elongation at Break, %	Shore Hardness	Temperature Range
3335™	30288 30289	25 ml syringe 1 liter bottle	Clear/ colorless	Ultraviolet, cationic	Metal, glass, thermoplastic	6,000	2	D 84	-65°F to 325°F
3336™	31064 31065	42 ml dual cartridge 400 ml dual cartridge	Clear/ light amber	Ultraviolet, room temperature, heat	Metal, thermoplastic	14,500	6	D 79	-65°F to 350°F
3337™ 	36057 36058*	25 ml syringe 1 liter bottle	Clear	Ultraviolet, cationic	Metal, glass	5,000	7	D 80	-65°F to 350°F
3340™ 	36906 36907*	25 ml syringe 1 liter bottle	Transparent	Ultraviolet, cationic	Metal, glass	6,000	5	D 83	-65°F to 350°F

LOCTITE® BRAND LIGHT CURE ADHESIVES (SILICONE) PROPERTIES CHART

PRODUCT	Item Number	Container	Appearance Clarity/Color	Cure Type	Key Substrates	Viscosity, cP Brookfield, 25°C	Elongation at Break, %	Shore Hardness	Temperature Range	Agency Approvals
5083™ Nuva-Sil®	17528 17635	300 ml cartridge 40 lb. pail	Clear/ transparent	Ultraviolet, moisture, acetoxo	Glass, metal, ceramic	145 gm/min.†	170	A 55	-65°F to 350°F	UL Listed for U.S.
5084™ Nuva-Sil®	17631 17633	300 ml cartridge 40 lb. pail	Yellow/ transparent	Ultraviolet, moisture, methoxy	Glass, metal, ceramic	150 gm/min.†	200	A 45	-65°F to 350°F	UL Listed for U.S.
5088™ Nuva-Sil® 	17614 17382	300 ml cartridge 40 lb. pail	Translucent/ colorless	Ultraviolet, moisture, methoxy	Glass, metal, ceramic	65,000 thixotropic	175	A 30	-65°F to 350°F	-
5091™ Nuva-Sil® 	17412 18074	300 ml cartridge 40 lb. pail	Translucent/ colorless	Ultraviolet, moisture, acetoxo	Glass, metal, ceramic	5,500	100	A 34	-65°F to 350°F	UL Listed for U.S.
5092™ Nuva-Sil®	28354 28355	300 ml cartridge 40 lb. pail	Yellow- green/ fluorescent	Ultraviolet, moisture, methoxy	Glass, metal, ceramic	5,800	75	A 42	-65°F to 350°F	-

† Extrusion rate, grams/minute, 1/8" orifice at 90 psi.  
\* Made-to-order item.

 Indicates worldwide availability.

The Electromagnetic Spectrum

