

Technology from Henkel Corporation has made the productivity promises of cyanoacrylate adhesives (instant adhesives) a reality with the industry's widest selection of high-performance, application-specific, instant adhesives. Loctite® brand instant adhesives are available in a variety of viscosities, cure speeds, gap-filling capabilities, and substrate compatibilities. The ultra high-performance Loctite® brand Prism® family offers additional products that surpass the most stringent demands, including toughened formulations, low odor and low blooming products, surface insensitive and thermally resistant formulations.

# BONDING

## CYANOACRYLATE ADHESIVES

### Loctite® 380™ Black Max® Instant Adhesive

#### *Toughened*

The original elastomer-modified instant adhesive. Bonds metal, rubber, and plastic. Excellent peel, impact, and shear strength.

### Loctite® 401™ Prism® Instant Adhesive

#### *Surface Insensitive*

A general purpose adhesive for difficult-to-bond surfaces.

### Loctite® 403™ Prism® Instant Adhesive

#### *Low Odor/Low Bloom*

An adhesive for less precisely fitted parts. Eliminates the need for sophisticated ventilation.

### Loctite® 404™ Quick Set™ Instant Adhesive

#### *General Purpose*

For general maintenance and repair. Excellent for rubber bonding.

### Loctite® 411™ Prism® Instant Adhesive

#### *Clear Toughened*

An adhesive formulated for excellent impact and peel strength in gap filling applications.

### Loctite® 430™ Super Bonder® Instant Adhesive

A general industrial-grade instant adhesive. Excellent choice for bonding close fitting metal parts.

### Loctite® 444™ Tak Pak® Instant Adhesive

An adhesive designed for printed circuit board assembly and repair. Cures instantly with Loctite® 712™ or 7452™ Tak Pak® Accelerator.

For technical information and/or product availability, call 1-800-LOCTITE or on the web

Visit

[www.loctite.com](http://www.loctite.com)

### Loctite® 454™ Prism® Instant Adhesive

#### *Surface Insensitive Gel*

A general purpose, no-run clear gel. Can be applied to vertical surfaces. Excellent for almost all surfaces. Ideal for porous substrates and rough and acidic surfaces.

### Loctite® 495™ Super Bonder® Instant Adhesive

#### *General Purpose*

Designed to bond rubber, metal, and plastic parts with gaps to .004".

### Loctite® 498™ Super Bonder® Instant Adhesive

#### *Thermal Cycling Resistant*

A medium viscosity, high temperature product for all metals, and most plastics and rubbers. Resists temperatures to 223°F continuous or up to 250°F intermittent.

### Loctite® 4204™ Prism® Instant Adhesive

#### *Thermal Resistant*

Part of the family of clear, toughened, thermally resistant instant adhesives. Excellent hot strength and heat aging properties up to 250°F.

### Loctite® 4210™ Prism® Instant Adhesive

#### *Thermal Resistant*

Part of the family of black toughened thermally resistant instant adhesives. Low viscosity and thermally resistant up to 250°F.

### Loctite® 4212™ Prism® Instant Adhesive

#### *Thermal Resistant Gel*

A high viscosity, black, toughened, instant adhesive. Thermally resistant up to 250°F.

NEW

### Loctite® 4500™ Prism® Instant Adhesive

#### *Fast Curing/Surface Insensitive Gel*

Specifically formulated for faster cure speeds on dry or acidic surfaces and substrates. The gel consistency prevents adhesive flow even on vertical surfaces.

NEW

### Loctite® 4501™ Prism® Instant Adhesive

#### *Wicking Viscosity*

A single component, fast-curing instant adhesive. Formulated to maintain cure speed throughout its shelf life.

NEW

### Loctite® 4851™ Prism® Instant Adhesive

#### *Flexible*

A medium viscosity, flexible, single component material for porous or absorbent substrates, such as paper and leather.

NEW

### Loctite® 4861™ Prism® Instant Adhesive

#### *Flexible*



A high viscosity, flexible, single component, general-purpose material for gaps up to .008".

#### ADDITIONAL OFFERINGS

For Light Cure Cyanoacrylate Adhesives, see the Light Cure Adhesives section beginning on page 29.



**LOCTITE® BRAND INSTANT ADHESIVES PROPERTIES CHART**

PRODUCT	Item Number	Container	Typical Use	Color	Gap Fill	Category	Viscosity cP	Strength (psi)* Tensile Shear	Temperature Range	Cure Speed**	Specific Gravity	Agency Approvals
380™ Black Max®	38004 38050 38061	3 gm tube 1 oz. bottle 1 lb. bottle	Close fitting parts	Black	.006"	Toughened Ethyl	200	3,750	-65°F to 225°F	Fixture - 90 sec. Full - 24 hrs.	1.10	CFIA
382™ Tak Pak®	38203 20420 38240 38261	3 gm tube 20 gm kit† 20 gm bottle 1 lb. bottle	Tak Pak® ultra-performance wire tacking	Clear	.008"	General purpose Ethyl	5,000	3,200	-65°F to 250°F	Fixture - 30 sec. Full - 24 hrs.	1.05	-
401™ Prism® 	40104 40140 40161	3 gm tube 20 gm bottle 1 lb. bottle	General purpose	Clear	.005"	Surface insensitive Ethyl	110	3,200	-65°F to 180°F	Fixture - 15 sec. Full - 24 hrs.	1.05	CFIA
403™ Prism®	40304 40340 40361	3 gm tube 20 gm bottle 1 lb. bottle	Gap filling	Clear	.008"	Low odor/low bloom Alkoxy	1,000	2,600	-65°F to 160°F	Fixture - 50 sec. Full - 24 hrs.	1.10	-
404™ Quick Set™	46551 46548 46561	1/3 oz. bottle 4 oz. bottle 1 lb. bottle	Rubber O-ring bonder	Clear	.005"	General purpose Ethyl	80	3,500	-65°F to 180°F	Fixture - 30 sec. Full - 24 hrs.	1.09	ABS, CFIA, Commercial item std. A-A-3097
406™ Prism® 	40604 40640 40661	3 gm tube 20 gm bottle 1 lb. bottle	Wicking grade	Clear	.004"	Surface insensitive Ethyl	20	3,200	-65°F to 180°F	Fixture - 15 sec. Full - 24 hrs.	1.05	Commercial item std. A-A-3097
408™ Prism®	40840 40861	20 gm bottle 1 lb. bottle	Wicking grade	Clear	.002"	Low odor/low bloom Alkoxy	5	2,600	-65°F to 160°F	Fixture - 50 sec. Full - 24 hrs.	1.05	-
409™ Super Bonder®	40904 21922 40945 40974 18030	3 gm tube 10 gm syringe 20 gm tube 200 gm tube 300 gm cartridge	General purpose gel adhesive	Clear	.010"	General purpose Ethyl	Gel	3,200	-65°F to 180°F	Fixture - 75 sec. Full - 24 hrs.	1.10	-
410™ Prism®	41004 41045 41061	3 gm tube 20 gm bottle 1 lb. bottle	Gap filling	Black	.008"	Toughened Ethyl	3,500	3,200	-65°F to 225°F	Fixture - 90 sec. Full - 24 hrs.	1.07	CFIA
411™ Prism®	41104 41145 41161	3 gm tube 20 gm bottle 1 lb. bottle	Clear gap filling	Clear	.008"	Toughened Ethyl	5,000	3,200	-65°F to 210°F	Fixture - 30 sec. Full - 24 hrs.	1.07	-
412™ Super Bonder®	41250 41261	1 oz. bottle 1 lb. bottle	Temporary bonding	Clear	.002"	General purpose Ethyl	3	1,500	-65°F to 180°F	Fixture - 15 sec. Full - 24 hrs.	1.05	-
414™ Super Bonder®	41404 41450 41461	3 gm tube 1 oz. bottle 1 lb. bottle	Plastic bonder	Clear	.006"	General purpose Ethyl	110	3,200	-65°F to 180°F	Fixture - 20 sec. Full - 24 hrs.	1.05	CFIA, Commercial item std. A-A-3097
415™ Super Bonder®	41550 41561	1 oz. bottle 1 lb. bottle	Gap filling metal bonder	Clear	.008"	General purpose Methyl	1,500	3,600	-65°F to 180°F	Fixture - 30 sec. Full - 24 hrs.	1.09	Commercial item std. A-A-3097
416™ Super Bonder®	41650 41661	1 oz. bottle 1 lb. bottle	Gap filling plastic bonder	Clear	.008"	General purpose Ethyl	1,500	3,200	-65°F to 180°F	Fixture - 30 sec. Full - 24 hrs.	1.05	CFIA, Commercial item std. A-A-3097
417™ Super Bonder®	41750	1 oz. bottle	Temporary bonding	Clear	.002"	General purpose Ethyl	3	400	-65°F to 180°F	Fixture - 30 sec. Full - 24 hrs.	1.05	-
420™ Super Bonder®	42050 42061	1 oz. bottle 1 lb. bottle	Wicking type plastic bonder	Clear	.002"	General purpose Ethyl	2	2,900	-65°F to 180°F	Fixture - 20 sec. Full - 24 hrs.	1.05	Commercial item std. A-A-3097
422™ Super Bonder®	42250 42261	1 oz. bottle 1 lb. bottle	Gap filling plastic bonder	Clear	.008"	General purpose Ethyl	2,500	3,200	-65°F to 180°F	Fixture - 30 sec. Full - 24 hrs.	1.09	CFIA, Commercial item std. A-A-3097
426™ Prism®	21921 18398 17451 17529	10 gm syringe 20 gm tube 200 gm tube 300 gm cartridge	Porous surfaces	Black	.010"	Toughened Ethyl	Gel	3,000	-65°F to 210°F	Fixture - 20 sec. Full - 24 hrs.	1.10	-
430™ Super Bonder®	43004 43050 43061	3 gm tube 1 oz. bottle 1 lb. bottle	Metal bonder for close fitting parts	Clear	.005"	General purpose Methyl	80	3,600	-65°F to 180°F	Fixture - 30 sec. Full - 24 hrs.	1.09	Commercial item std. A-A-3097

\* Grit blasted steel. \*\* Varies with substrates.

† Contains Loctite® 382™ Tak Pak® Instant Adhesive (20 gm bottle), Loctite® 7452™ Tak Pak® Accelerator (0.7 oz. net wt. aerosol can).

A complete line of surface primers, accelerators and cleaners are available to further enhance the performance of Loctite® brand instant adhesives. Refer to the Surface Preparation section.



Indicates worldwide availability.

## LOCTITE® BRAND INSTANT ADHESIVES PROPERTIES CHART

PRODUCT	Item Number	Container	Typical Use	Color	Gap Fill	Category	Viscosity cP	Strength (psi)* Tensile Shear	Temperature Range	Cure Speed**	Specific Gravity	Agency Approvals
444™ Tak Pak®	12292 20419 12294	20 gm bottle 20 gm kit† 1 lb. bottle	Tak Pak® Wire tacking adhesive	Clear	.007"	General purpose Ethyl	700	3,200	-65°F to 180°F	Fixture - 30 sec. Full - 24 hrs.	1.05	Commercial item std. A-A-3097
454™ Prism®	45404 21925 45440 45474 45478	3 gm tube 10 gm syringe 20 gm tube 200 gm tube 300 gm cartridge	Porous surfaces	Clear	.010"	Surface insensitive Ethyl	Gel	3,200	-65°F to 180°F	Fixture - 15 sec. Full - 24 hrs.	1.05	CFIA, ABS
455™ Prism®	22309 17421	10 gm syringe 200 gm tube	Porous surfaces	Clear	.010"	Low odor/low bloom Alkoxy	Gel	2,600	-65°F to 160°F	Fixture - 90 sec. Full - 24 hrs.	1.10	-
460™ Prism®	46004 46040 46061	3 gm tube 20 gm bottle 1 lb. bottle	Close fitting parts	Clear	.004"	Low odor/low bloom Alkoxy	45	2,600	-65°F to 160°F	Fixture - 50 sec. Full - 24 hrs.	1.10	-
480™ Prism®	48040 48061	20 gm bottle 1 lb. bottle	General filling	Black	.006"	Toughened Ethyl	300	3,800	-65°F to 210°F	Fixture - 90 sec. Full - 24 hrs.	1.10	NSF/ANSI 61
493™ Super Bonder®	49350 49361	1 oz. bottle 1 lb. bottle	Wicking type metal bonder	Clear	.002"	General purpose Methyl	2	3,600	-65°F to 180°F	Fixture - 30 sec. Full - 24 hrs.	1.09	Commercial item std. A-A-3097
495™ Super Bonder®	49595 49504 49550 49561	.07 fl. oz. Gluematic® Pen 3 gm tube 1 oz. bottle 1 lb. bottle	General purpose	Clear	.004"	General purpose Ethyl	45	2,750	-65°F to 180°F	Fixture - 20 sec. Full - 24 hrs.	1.05	Commercial item std. A-A-3097, ABS
496™ Super Bonder®	49650 49661	1 oz. bottle 1 lb. bottle	General purpose rubber bonder	Clear	.006"	General purpose Methyl	125	3,600	-65°F to 180°F	Fixture - 30 sec. Full - 24 hrs.	1.09	Commercial item std. A-A-3097
498™ Super Bonder®	49850 49861	1 oz. bottle 1 lb. bottle	Thermal cycling adhesive	Clear	.007"	General purpose Ethyl	500	3,000	-65°F to 250°F	Fixture - 50 sec. Full - 24 hrs.	1.10	-
499™ Super Bonder®	49904 21924 49945 49974	3 gm tube 10 gm syringe 20 gm tube 200 gm tube	Thermal cycling gel adhesive	Clear	.010"	General purpose Ethyl	Gel	3,200	-65°F to 200°F	Fixture - 75 sec. Full - 24 hrs.	1.10	-
4203™ Prism®	28026 28027	20 gm tube 1 lb. bottle	Close fitting parts	Clear	.005"	Thermally resistant Ethyl	375	2,200	-65°F to 250°F	Fixture - 30 sec. Full - 24 hrs.	1.10	-
4204™ Prism®	26324 26325	20 gm tube 1 lb. bottle	Gap filling	Clear	.008"	Thermally resistant Ethyl	4,000	2,100	-65°F to 250°F	Fixture - 30 sec. Full - 24 hrs.	1.10	-
4205™ Prism®	28028 28029 28030	20 gm tube 200 gm tube 300 gm cartridge	Porous surfaces	Clear	.010"	Thermally resistant Ethyl	Gel	2,300	-65°F to 250°F	Fixture - 30 sec. Full - 24 hrs.	1.10	-
4210™ Prism®	19757 19758 19759	3 gm tube 20 gm bottle 1 lb. bottle	Close fitting parts	Black	.005"	Thermally resistant Ethyl	160	3,600	-65°F to 250°F	Fixture - 120 sec. Full - 24 hrs.	1.10	CFIA
4211™ Prism®	19761 19762 19763	3 gm tube 20 gm bottle 1 lb. bottle	Gap filling	Black	.007"	Thermally resistant Ethyl	2,500	3,600	-65°F to 250°F	Fixture - 210 sec. Full - 24 hrs.	1.07	-
4212™ Prism®	19765 21923 19766 19767 19768	3 gm tube 10 gm syringe 20 gm tube 200 gm tube 300 gm cartridge	Porous surfaces	Black	.008"	Thermally resistant Ethyl	11,000	3,900	-65°F to 250°F	Fixture - 360 sec. Full - 24 hrs.	1.05	CFIA
4471™ Prism®	44704 44740 44761	3 gm tube 20 gm bottle 1 lb. bottle	Gap filling	Clear	.007"	Surface insensitive Ethyl	600	3,200	-65°F to 180°F	Fixture - 10 sec. Full - 24 hrs.	1.10	-
4500™ Prism®	35533 35534 35813 35814	3 gm tube 20 gm tube 200 gm tube 300 gm cartridge	Porous surfaces	Clear	.010"	Surface insensitive Ethyl	Gel	2,760	-65°F to 180°F	Fixture - 5 sec. Full - 24 hrs.	1.11	-
4501™ Prism®	38146 38145 38147	3 gm tube 20 gm bottle 1 lb. bottle	Wicking grade	Clear	.004"	Surface insensitive Ethyl	20	2,600	-65°F to 180°F	Fixture - 5 sec. Full - 24 hrs.	1.10	-
4851™ Prism®	37732 37733	20 gm bottle 1 lb. bottle	Flexible	Clear	.006"	Flexible Alkyl	400	2,175	-65°F to 125°F	Fixture - 30 sec. Full - 24 hrs.	1.10	-
4861™ Prism®	37708 37711	20 gm bottle 1 lb. bottle	Flexible	Clear	.008"	Flexible Alkyl	4,000	2,465	-65°F to 125°F	Fixture - 25 sec. Full - 24 hrs.	1.10	-

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