

## 309-0163 | Loctite



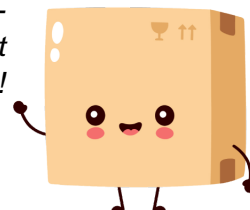
### Colle Super Glue instantanée Loctite 4062 - Liquide - Bouteille - 20g - Transparent

Réf 234705

**39.71€<sup>TTC\*</sup>**

Voir le produit : <https://www.domomat.com/66776-colle-super-glue-instantanee-loctite-4062-liquide-bouteille-20g-transparent-loctite-234705.html>

*Le produit Colle Super Glue instantanée Loctite 4062 - Liquide - Bouteille - 20g -  
Transparent  
est en vente chez Domomat !*





# LOCTITE® 4062

May 2004

## PRODUCT DESCRIPTION

LOCTITE® 4062 provides the following product characteristics:

<b>Technology</b>	Cyanoacrylate
<b>Chemical Type</b>	Ethyl cyanoacrylate
<b>Appearance (uncured)</b>	Transparent, colorless to straw colored liquid <sup>LMS</sup>
<b>Components</b>	One part - requires no mixing
<b>Viscosity</b>	Very low
<b>Cure</b>	Humidity
<b>Application</b>	Bonding
<b>Key Substrates</b>	Plastics and Rubbers

LOCTITE® 4062 is designed for bonding of plastics and elastomeric materials where very fast fixturing is required. The low viscosity is particularly suitable for bonding applications where controlled penetration of adhesive is required.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C	1.05
Viscosity, Cone & Plate, mPa·s (cP):	
Temperature: 25 °C, Shear Rate: 3,000 s <sup>-1</sup>	1 to 4 <sup>LMS</sup>
Viscosity, Brookfield - LVF, 25 °C, mPa·s (cP):	
Spindle 1, speed 30 rpm	1 to 3
Flash Point - See MSDS	

## TYPICAL CURING PERFORMANCE

Under normal conditions, the atmospheric moisture initiates the curing process. Although full functional strength is developed in a relatively short time, curing continues for at least 24 hours before full chemical/solvent resistance is developed.

### Cure Speed vs. Substrate

The rate of cure will depend on the substrate used. The table below shows the fixture time achieved on different materials at 22 °C / 50 % relative humidity. This is defined as the time to develop a shear strength of 0.1 N/mm<sup>2</sup>.

Fixture Time, ISO 4587, seconds:	
Steel (degreased)	3 to 20
Aluminum	2 to 5
Neoprene	<5
Rubber, Nitrile	<5
ABS	2 to 5
PVC	2 to 5
Polycarbonate	3 to 10
Phenolic	<5

### Cure Speed vs. Bond Gap

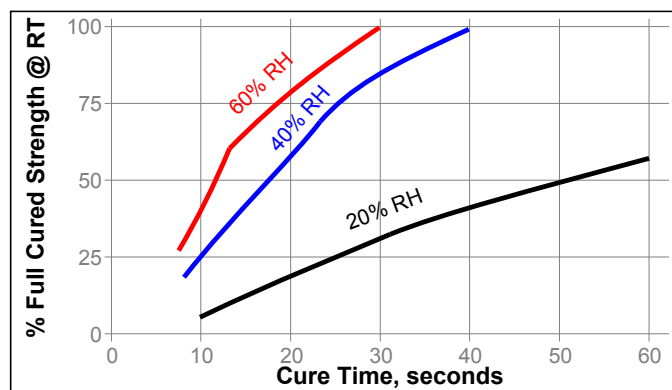
The rate of cure will depend on the bondline gap. Thin bond lines result in high cure speeds, increasing the bond gap will decrease the rate of cure.

### Cure Speed vs. Activator

Where cure speed is unacceptably long due to large gaps, applying activator to the surface will improve cure speed. However, this can reduce ultimate strength of the bond and therefore testing is recommended to confirm effect.

### Cure Speed vs. Humidity

The rate of cure will depend on the ambient relative humidity. The following graph shows the tensile strength developed with time on Buna N rubber at different levels of humidity.



## TYPICAL PROPERTIES OF CURED MATERIAL

After 24 hours @ 22 °C

### Physical Properties:

Coefficient of Thermal Expansion, ASTM D 696, K <sup>-1</sup>	80×10 <sup>-6</sup>
Coefficient of Thermal Conductivity, ASTM C 177, W/(m·K)	0.10
Glass Transition Temperature, ASTM E 228, °C	120

### Electrical Properties:

Dielectric Constant / Dissipation Factor, ASTM D 150:	
0.10 kHz	2.65 / <0.02
1 kHz	2.75 / <0.02
10 kHz	2.75 / <0.02
Volume Resistivity, ASTM D 257, Ω·cm	10×10 <sup>15</sup>
Surface Resistivity, ASTM D 257, Ω	10×10 <sup>15</sup>
Dielectric Breakdown Strength, ASTM D 149, kV/mm	25

## TYPICAL PERFORMANCE OF CURED MATERIAL

### Adhesive Properties

After 24 hours @ 22 °C

Lap Shear Strength, ISO 4587:	
Steel (grit blasted)	N/mm <sup>2</sup> 12 to 20 (psi) (1,740 to 2,900)
Aluminum (grit blasted)	N/mm <sup>2</sup> 11 to 15 (psi) (1,595 to 2,175)
Zinc Dichromate	N/mm <sup>2</sup> 3 to 8 (psi) (435 to 1,160)
ABS	N/mm <sup>2</sup> 6 to 8 (psi) (870 to 1,160)
PVC	N/mm <sup>2</sup> 6 to 8 (psi) (870 to 1,160)
Polycarbonate	N/mm <sup>2</sup> 8 to 12 (psi) (1,160 to 1,740)
Phenolic	N/mm <sup>2</sup> 6 to 12 (psi) (870 to 1,740)

## Tensile Strength, ISO 6922:

Steel (grit blasted)	N/mm <sup>2</sup>	10 to 20
	(psi)	(1,450 to 2,900)
Buna-N	N/mm <sup>2</sup>	5 to 11
	(psi)	(725 to 1,595)

After 10 seconds @ 22 °C

## Tensile Strength, ISO 6922:

Buna-N	N/mm <sup>2</sup>	≥6.90 <sup>LMS</sup>
	(psi)	(≥1,000)

## TYPICAL ENVIRONMENTAL RESISTANCE

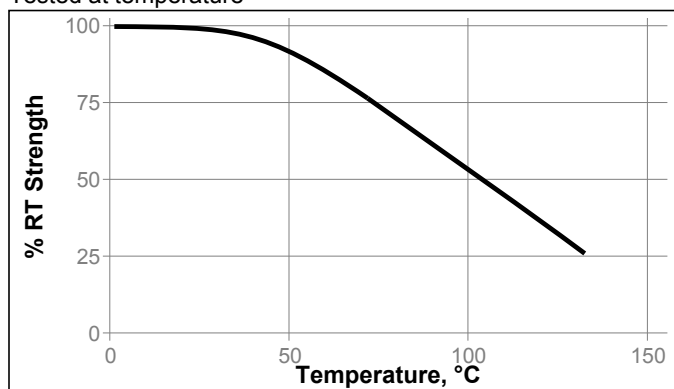
Cured for 1 week @ 22 °C

Lap Shear Strength, ISO 4587:

Mild Steel (grit blasted)

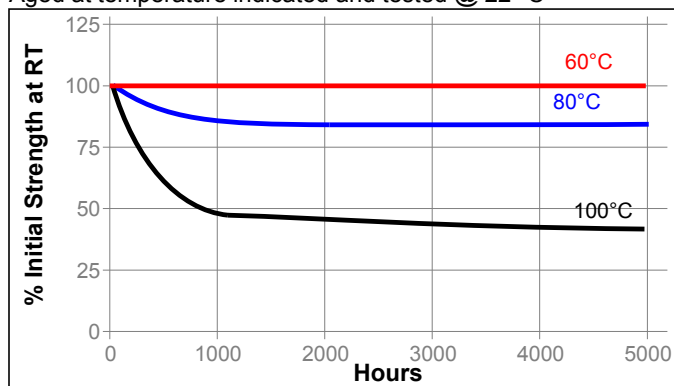
## Hot Strength

Tested at temperature



## Heat Aging

Aged at temperature indicated and tested @ 22 °C



## Chemical/Solvent Resistance

Aged under conditions indicated and tested @ 22 °C.

Environment	°C	% of initial strength		
		100 hr	500 hr	1000 hr
Motor Oil	40	100	100	95
Gasoline	22	100	100	100
Water Glycol 50/50	22	100	100	100
Ethanol	22	100	100	100
Isopropanol	22	100	100	100
Freon TA	22	100	100	100
Heat/Humidity 95% RH	40	100	95	80
Heat/Humidity 95% RH on Polycarbonate	40	100	100	90

## 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 Material Safety Data Sheet (MSDS).**

## Directions for use

1. For best performance bond surfaces should be clean and free from grease.
2. This product performs best in thin bond gaps (0.05 mm).
3. Excess adhesive can be dissolved with Loctite cleanup solvents, nitromethane or acetone.

Loctite Material Specification<sup>LMS</sup>

LMS dated May 06, 2004. Test reports for each batch are available for the indicated properties. LMS test reports include selected QC test parameters considered appropriate to specifications for customer use. Additionally, comprehensive controls are in place to assure product quality and consistency. Special customer specification requirements may be coordinated through Henkel Loctite Quality.

## Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

**Optimal Storage: 2 °C to 8 °C. Storage below 2 °C or greater than 8 °C can adversely affect product properties.**

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation 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 local Technical Service Center or Customer Service Representative.

**Note**

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Reference 1