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C 2040

## INSTANT ADHESIVE RUBBER AND O-RINGS

### BENEFITS

- High performance bonding.
- Instant capture.
- Easy to use.
- Clean glue.
- High tear resistance.
- Economical: 1 20 g bottle can make up to 4000 collages. 1 drop = approximately 1 cm<sup>2</sup>.
- Authorized for bonding in food environments.



### DEFINITION

Very fast setting cyanoacrylate glue for all materials. It is excellent for bonding rubber and plastics.



P1 140139



### FIELD OF APPLICATION

O-rings, window seals, electrical appliances, rubber stops, mechanics, electronics, optics, jewelry, watches, toys, plastics processing, household appliances, trinkets, tableware. All types of materials except Teflon, polyethylene and derivatives.

Also bonds glass, metals and many other materials.

PVC pipes.

Food industries.

### FEATURES

Color : Transparent

Density : 1,05

Viscosity: 20 - 40 cP

Flash point: > 85°C

Operating temperature -60 to +80°C

Setting Time: \_\_\_\_\_

- |   |                                       |
|---|---------------------------------------|
| • Plastics, Glass, Rubbers: • Metals, Wood: | 2 to 5 seconds                        |
| • Tensile strength                          | 20 to 40 seconds                      |
| SBR/SBR: • Tensile strength EPDM/EPDM: •    | 200 daN/cm <sup>2</sup> (ASTM D 2095) |
| Shear strength alu/alu:                     | 24 daN/cm <sup>2</sup> (ASTM D 2095)  |
|   | 27,5 MPa                              |
| • Shock resistance:                         | 15 daN/cm <sup>2</sup> (ASTM 950)     |

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### SETTING TIME

The setting time depends on the materials, their surface condition, the clearance between the parts and the relative humidity.

Tests carried out at 20°C and 50% relative humidity.

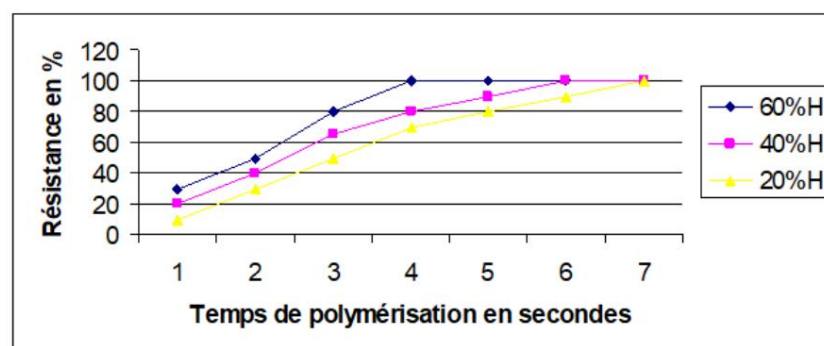
The times given are the times at which a shear strength of 0.1 N/mm<sup>2</sup> (14.5 psi) is obtained according to ASTM D1002.

Notes: maximum resistances (mechanical and chemical) are obtained after 24 hours of polymerization.

The smaller the clearance, the faster the grip.

ABS :	5 to 10 seconds
PVC :	5 to 10 seconds
Glass :	5 to 15 seconds
Rubbers:	<5 seconds
Neoprene:	< 10 seconds
Steel :	5 to 15 seconds
Go :	5 to 15 seconds
Treated surfaces:	5 to 30 seconds
Drink :	90 to 120 seconds
Balsa :	5 to 15 seconds
Add :	5 to 30 seconds
Fabric :	5 to 30 seconds
Polycarbonate :	5 to 40 seconds
Paper :	5 to 60 seconds

### POLYMERIZATION RATE AS A FUNCTION OF RELATIVE HUMIDITY



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## INSTANT ADHESIVE RUBBER AND O-RINGS

### PHYSICAL PROPERTIES OF THE POLYMERIZED PRODUCT

Coefficient of linear expansion, ASTM D696	80.10-6 K <sup>-1</sup>
Coefficient of thermal conductivity, ASTM C177	0.1 W.m-1 .K-1
Glass transition temperature, ASTM E228	120°C

### ELECTRICAL PROPERTIES OF THE POLYMERIZED PRODUCT

Volume Resistivity, ASTM D257	1.1016 $\cdot 10^{16}$ $\Omega \cdot \text{cm}$
Surface resistivity, ASTM C177	1. 1016 $\cdot 10^{16}$ $\Omega \cdot \text{cm}$
Dielectric strength, ASTM D149	25 kV/mm
Dielectric Constant and Loss at 25°C, ASTM D150	C=2.75 and P<0.02 for 0.1, 1 and 10 kHz

### MECHANICAL PERFORMANCE AFTER 24 HOURS

Shear strength, ASTM D1002, DIN 5328	
Sandblasted steel: ..... 26 N/mm <sup>2</sup> (3800 psi)	
Unoxidized	N/mm <sup>2</sup> (2800 psi)
Zinc bichromate/aluminum: ..... 10 N/mm <sup>2</sup> (1500 psi)	
ABS: ..... 20 N/mm <sup>2</sup> (3000 psi)	
PVC :	20 N/mm <sup>2</sup> (3000 psi)
Polycarbonate : ..... 20 N/mm <sup>2</sup> (3000 psi)	
Phenolic material: ..... 15	N/mm <sup>2</sup> (2200 psi)
Neoprene rubber: ..... 15 N/mm <sup>2</sup> (2200 psi)	
Nitrile rubber:	N/mm <sup>2</sup> (2200 psi)
Tensile strength, ASTM D2095, DIN 5328	
Sandblasted steel:	25 N/mm <sup>2</sup> (3600 psi)
Buna N rubber:	N/mm <sup>2</sup> (2200 psi)

### RESISTANCE TO CHEMICAL PRODUCTS, MEASUREMENT AFTER RETURN TO 22°C

Engine oil at 40°C (1000 hours): 95% of initial resistance	
Leaded gasoline at 22°C (1000 hours): 100% of initial resistance	
Ethanol at 22°C (1000 hours):	100% of initial resistance
Isopropanol at 22°C (1000 hours):	100% of initial resistance
Air 95% RH at 40°C (1000 hours):	40% of initial resistance
Freon TA at 22°C (1000 hours):	100% of initial resistance

Do not put in contact with oxygen.



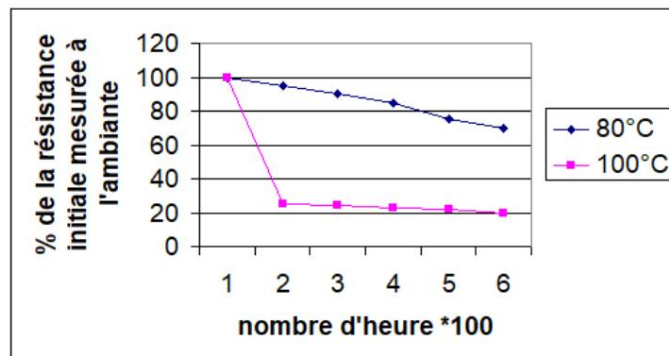
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## INSTANT ADHESIVE RUBBER AND O-RINGS

### RESISTANCE TO HOT AGING

Aging at the indicated temperature and measurement after returning to room temperature.



### INSTRUCTIONS FOR USE

Ready to use.

To obtain optimal polymerization and therefore perfect bonding, it is necessary that the humidity level of the air is at least 50% in the room where it is used and that the assembled parts are clean and dry.

Our reference **016 - NETTOYANT 3141** has been specially designed to clean supports before gluing.

To reduce setting time when relative humidity is low or there is significant clearance between parts: use **ACTIVATOR 6140**. However, this may result in a reduction in mechanical strength.

To improve mechanical resistance on certain surfaces: use **PRIMER 3440**.

To detach assembled parts or clean the removal equipment: use the **3720 DECOLLEUR**.

### PACKAGING

Flacon 500 g	ref. 1355F6	x6
Flacon 50 g	ref. 1355F3	x6
Flacon 20 g	ref. 1355F2	x6
Vial 5 g in a blister pack	ref. 1355F1	x12



*The data contained in this document are understood to be average values from periodically renewed tests.*

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