

TECHNICAL INFORMATION

Date of
preparation: 18
December 2020



Date of update:
18 December
2020

Website1
from 3

**Product name: APP C610 cyanoacrylate
adhesive.**

APP No.: 040509.

C610 adhesive is a medium viscosity cyanoacrylate adhesive with a very short setting time. Moisture resistant. Stable at low temperatures. Solvent-free. The adhesive creates a fast, clean and almost invisible bond. Designed for bonding rubber, plastics and metal.

Packaging: 20 ml.
Product and additives: APP C610.

Physical properties in liquid state. Basic
components: Ethyl
cyanoacrylate.
Colour: transparent, colourless.
Flash point: $> 81^{\circ}\text{C}$.
Density: 1.06 g/cm^3 .
Brookfield viscosity: $70\text{-}90 \text{ mPa}\cdot\text{s}/25^{\circ}\text{C}$.

Polymer properties.
Colour: transparent, colourless.
Softening temperature: 130°C .
Rockwell hardness: M58.
Total strength: 24 hours.
Solubility: DMF (dimethylformamide), acetonitrile,
acetone. Thermal resistance: after curing from -40°C to $+85^{\circ}\text{C}$.

Curing speed.
EPDM: < 5 seconds.
Neoprene: < 5 seconds.
Nitrile rubber: < 5 seconds.
Balsa wood: < 5 seconds.
ABS: 7–10 seconds.
Polycarbonate: 10–15 seconds.
Steel: 25–40 seconds.

Shear strength.
Steel: $15\text{-}25 \text{ N/mm}^2$.
Aluminium: $7\text{-}10 \text{ N/mm}^2$.
Nitrile rubber: $5\text{-}10 \text{ N/mm}^2$.
Polycarbonate: $5\text{-}10 \text{ N/mm}^2$.
ABS: $6\text{-}10 \text{ N/mm}^2$.

The above information is based on our current knowledge of our products and their possible applications. It does not guarantee specific properties or suitability for use in specific conditions. Please follow the instructions and warnings on the product labels and in the safety data sheet. We accept no liability if the final result of the work was influenced by factors beyond our control.

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Tensile strength.

EPDM: 2-6 N/mm².
Neoprene: 5-15 N/mm².
Nitrile rubber: 5-15 N/mm².

Application

- For bonding rubber, plastics and metal.
- For internal joints in the automotive industry.
- Bonding leather and fabrics.
- Bonding ceramics, paper, cardboard, wood and wood-based materials (plywood, cork, laminates).

Properties

- Quick and very easy to use.
- Economical dosage.
- Useful in many situations.
- Adheres to smooth and porous surfaces.
- Flexible
- High mechanical strength.
- Resistant to ageing, moisture, temperature and many chemical compounds.
- Stable at low temperatures.

Application

Substrates

- Plastics, rubber and metal.
- Absorbent and porous materials such as wood, paper, cork, leather, ceramics and others.

The surface must be dust-free, degreased, compact, non-dusting and dry. Free from residues of previous adhesives, paint, putty and sealants.

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Website3
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Process

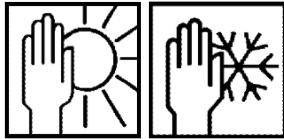
Before use, the product in an unopened container should reach room temperature to optimise the adhesive's adhesion and protect it from the negative effects of air humidity.

Apply the adhesive drop by drop from the bottle or dispenser onto one of the surfaces. After application, the surfaces to be bonded must be pressed together. The adhesive begins to polymerise after a few seconds at atmospheric humidity (40-70%), and the parts can be processed immediately.

Note.

Due to the wide variety of synthetic materials, it is recommended to test the suitability of the adhesive for bonding a specific material.

Storage



Store in closed original packaging in a dry and well-ventilated room.

Protect the product from direct sunlight or heat radiation. Excessive exposure to light may cause discolouration of the product.

Health and safety regulations



For professional use only.

See: text on product labels or in the hazardous product safety data sheet.

The user must comply with the health and safety regulations in force in their country.

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