

DELO®-CA 2153

Cyanoacrylate, superglue

Base

- methyl ester
- one-component, solvent-free

Use

- multi-purpose for rubber, plastic and metal bondings
- bridges gaps of up to 0.2 mm
- the cured product is normally used in a temperature range of -40 °C to +100 °C; depending on the application, other limits may be more reasonable
- compliant with RoHS directive 2015/863/EU

Processing

- supplied ready for use and can be applied well from the original container or with DELO dispensing units
- surfaces to be bonded should be dry, free of dust, grease and other contaminations
- the short processing time requires fast adhesive processing
- further improvement of the bond strength by sand blasting, grinding, or etching.
- for acceleration of curing use activator DELO-QUICK 2002

Curing

- a relative humidity of 40 - 80 % is required for optimal curing

Resistance

- Elastomers (e. g., synthetic rubber) or plastics known to be bondable are preferably bonded with DELO-CA adhesives. DELO-CA shows good resistance to changing climatic conditions and chemical influences. An extremely fast curing reaction can lead to tension superposition when bonding materials with solid structure (e. g., metal), influencing the permanent resistance of the bondings.

Technical data

<i>Color</i>	colorless
Max. gap filling capacity [mm]	0.1 to 0.2
Density [g/cm ³] at room temperature (approx. 23 °C)	1.1
<i>Viscosity</i> [mPas] at 23 °C, Brookfield spm 3/10	2000
Curing time until initial strength [s] tensile shear strength 1 - 2 MPa at room temperature (approx. 23 °C), 50 % relative humidity	15 - 25

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Curing time until final strength [h] at room temperature (approx. 23 °C), 50 % relative humidity	24
<i>Tensile shear strength Al/Al [MPa]</i> DIN EN 1465, sand-blasted component thickness: 1.6 mm after 72 h at room temperature (approx. 23 °C)	17
Tensile shear strength PC/PC [MPa] DIN EN 1465 component thickness: 4 mm after 72 h at room temperature (approx. 23 °C)	10
Specific volume resistance [Ωcm] VDE 0303, part 30	>1xE13
Dielectric strength [kV/mm] DIN EN 60243, part 1	12
Dielectric constant VDE 0303, part 4	5.2
Storage life at room temperature (0 °C to +25 °C) in unopened original container	6 months

Performance under temperature influence
Tensile shear strength Al/Al based on initial value at room temperature
DIN EN 1465, sand-blasted, component thickness: 1.6 mm

Temperature influence	Tensile shear strength Al/Al [%]
after storage 100 h at 100 °C measured at room temperature (approx. 23 °C)	60
after storage 500 h at 100 °C measured at room temperature (approx. 23 °C)	40
measured at 100 °C	55

Instructions and advice

General

The data and information provided are based on tests performed under laboratory conditions. Reliable information about the behavior of the product under practical conditions and its suitability for a specific purpose cannot be concluded from this. It is the customer's responsibility to test the suitability of a product for the intended purpose by considering all specific requirements and by applying standards the customer deems suitable (e. g. DIN 2304-1). Type, physical and chemical properties of the materials to be processed with the product, as well as all actual influences occurring during transport, storage, processing and use, may cause deviations in the behavior of the product compared to its behavior under laboratory conditions. All data provided are typical average values or uniquely determined parameters measured under laboratory conditions. The data and information provided are therefore no guarantee for specific product properties or the suitability of the product for a specific purpose.

Nothing contained herein shall be construed to indicate the non-existence of any relevant patents or to constitute a permission, encouragement or recommendation to practice any development covered by any patents, without permission of the owner of this patent.

All products provided by DELO are subject to DELO's General Terms of Business. Verbal ancillary agreements are deemed not to exist.

Instructions for use

The instructions for use of DELO-CA are available on: www.DELO.de. We will be pleased to send them to you on demand.

Occupational health and safety

see material safety data sheet

Specification

The properties in italics are part of the specification. Ranges with clear limits are defined for them and others, where applicable. In the course of the QA test, each batch is tested for these properties and the maintenance of the limits is ensured. The measuring methods used can deviate from those specified in the data sheet. Details can be found in the QA test report.