

DELO[®]-PUR 9895

polyurethane | 2C | room-temperature-curing

filled, pasty | flow-resistant, suitable for side-by-side cartridges, very good media resistance

Special features of product

- compliant with RoHS Directive 2015/863/EU
- UL listing: UL file E467212 (Yellow Card)
- tested for biocompatibility and meets the requirements according to DIN EN ISO 10993-5: test for cytotoxicity
- compliant with limits of VOC content in adhesive acc. to GB33372-2020
- passes ANSI/UL 94 HB Flame Test
- Component B is humidity-sensitive

Typical area of use

- -40 - 125 °C
- glass/metal bondings
- mixed bondings with plastics

Curing

Curing time

<i>until initial strength at rt approx. +23 °C tensile shear strength 1 - 2 MPa</i>	5.5	h
<i>until functional strength at rt approx. +23 °C tensile shear strength > 10 MPa</i>	24	h
<i>until final strength at rt approx. +23 °C</i>	72	h
<i>until initial strength at +80 °C tensile shear strength 1 - 2 MPa</i>	25	min
<i>until functional strength at +80 °C tensile shear strength > 10 MPa</i>	60	min
<i>until final strength at +80 °C</i>	90	min

Processing

Mixing ratio A : B - volume	1 : 1
Mixing ratio A : B - weight	1 : 1

Processing time after mixing

in 100 g batch
at rt approx. +23 °C 30 min

Storage life in unopened original container

at +15 °C to +30 °C 6 month(s)

Technical properties

Color in cured condition in 1 mm layer thickness beige

Filler particle type minerals

Density of component A 1.48 g/cm³

Density of component B 1.44 g/cm³

Parameters

Tensile shear strength 3 MPa
*by the criteria of DIN EN 1465 | **AI** | **AI** | Pretreatment: sand-blasted | at approx. +23 °C | 7 d | Measuring temperature: 100 °C*

Tensile shear strength 16 MPa
*by the criteria of DIN EN 1465 | **AI** | **AI** | Pretreatment: sand-blasted | at approx. +23 °C | 168 h*

Peel resistance 10 N/mm
*DELO Standard 38 | **Steel** | **Steel** | Pretreatment: sand-blasted | at approx. +23 °C | 7 d*

Tensile strength 10 MPa
by the criteria of DIN EN ISO 527 | at approx. +23 °C | 7 d

Elongation at tear 70 %
by the criteria of DIN EN ISO 527 | at approx. +23 °C | 7 d

Young's modulus 100 MPa
by the criteria of DIN EN ISO 527 | at approx. +23 °C | 7 d

Shore hardness A 90
by the criteria of DIN EN ISO 868 | at approx. +23 °C | 7 d

Shore hardness D 50
by the criteria of DIN EN ISO 868 | at approx. +23 °C | 7 d

Coefficient of linear expansion 205 ppm/K
DELO Standard 26 | TMA | Evaluation T: 30 °C - 140 °C

Water absorption 0.3 wt. %
by the criteria of DIN EN ISO 62 | Layer thickness: 4 mm | Type of storage: Media | Medium: Distilled water | Storage temperature: at approx. +23 °C | Duration: 24 h

Decomposition temperature 221 °C
DELO Standard 36

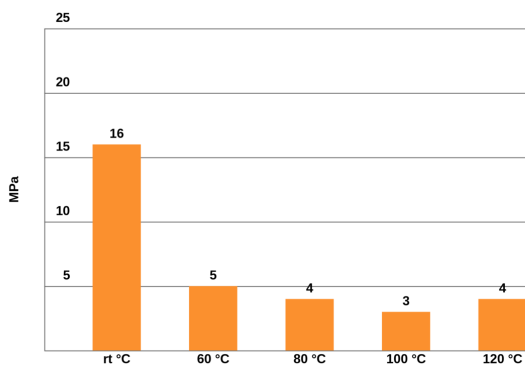
Volume resistivity >1E12 Ohm·cm

Surface resistance >1E14 Ohm
by the criteria of DIN EN 62631-3-2

Dielectric strength 17.6 kV/mm
by the criteria of DIN EN 60243-1

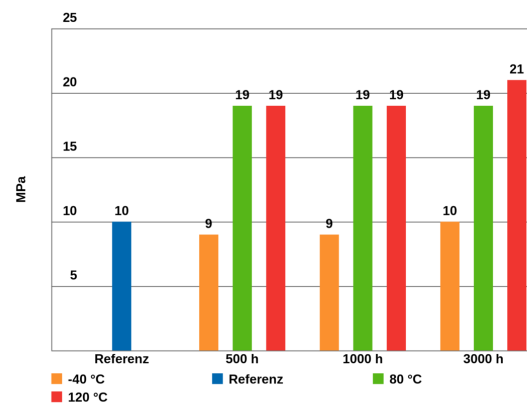
Creep resistance CTI M 600
by the criteria of DIN EN 60112

Tensile shear strength measured at the stated temperatures

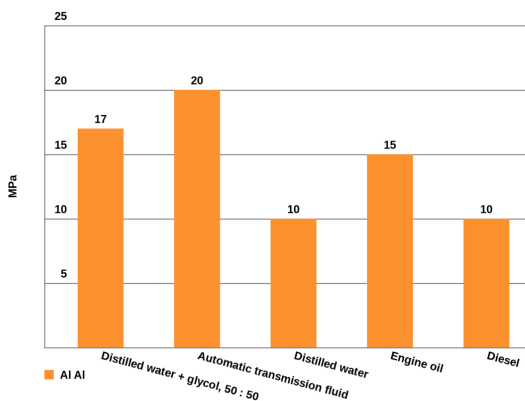


Substrates: Al / Al

Tensile strength after thermal storage, based on DIN EN ISO 527

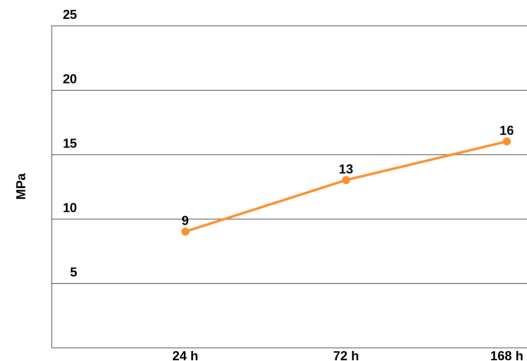


Compression shear strength after media storage for 1000 h



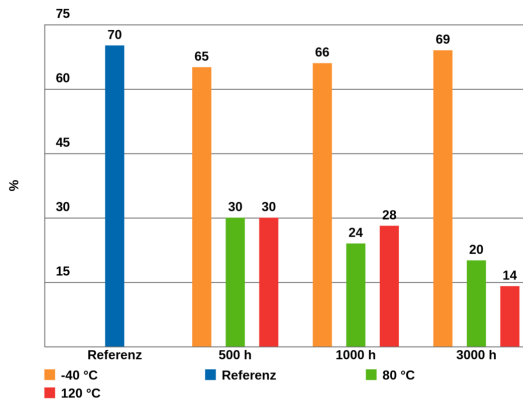
DELO Standard 5

Tensile shear strength for determining the curing process
 Substrates: Al/Al, based on DIN EN 1465

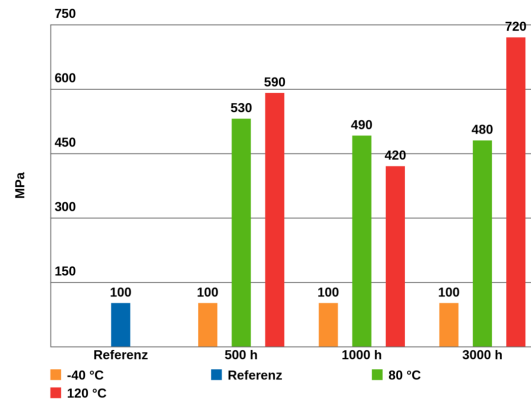


at room temperature (approx. +23 °C)

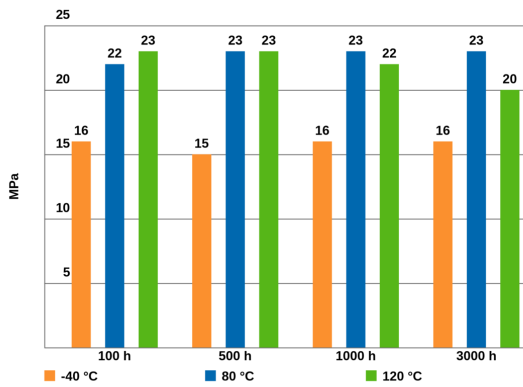
Elongation at tear after thermal storage, based on DIN EN ISO 527



Young's modulus after thermal storage
Curing / RT



Tensile shear strength after thermal storage, based on DIN EN 1465



Substrates: Al/ Al

Converting table

°F = (°C x 1.8) + 32	1 MPa = 145.04 psi
1 inch = 25.4 mm	1 GPa = 145.04 ksi
1 mil = 25.4 µm	1 cP = 1 mPa·s
1 oz = 28.3495 g	1 N = 0.225 lb

General curing and processing information

The curing time stated in the technical data was determined in the laboratory. It can vary depending on the adhesive quantity and component geometry and is therefore a reference value. Unless otherwise specified, the values were measured after 168 h at approx. 23 °C / 50 % r. h., and the values of heat-cured samples were measured after 24 h at approx. 23 °C / 50 % r. h.

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.

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Instructions for use

You can find further details in the instructions for use.

The instructions for use are available on www.DELO-adhesives.com.

We will be pleased to send them to you on demand.

Occupational health and safety

See material safety data sheet.

Specification

Nothing contained in this Technical Datasheet shall be interpreted as any express warranty or guarantee. This Technical Datasheet is for reference only and does not constitute a product specification. Please ask our responsible Sales Engineer for the applicable product specification which includes defined ranges. DELO is neither liable for any values and content of this Technical Datasheet nor for oral or written recommendations regarding the use, unless otherwise agreed in writing. This limitation of liability is not applicable for damages resulting from intent, gross negligence or culpable breach of cardinal obligations, nor shall it apply in case of death or personal injury or in case of liability under any applicable compulsory law.

CONTACT

DELO-PUR 9895 | as of 18.02.2022 13:05 | Page 5 of 5

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ADHESIVES

DISPENSING

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