

DELO-PUR 9692

polyurethane | 2C | room-temperature-curing

pasty, filled | flow-resistant, suitable for DELO-AUTOMIX

Special features of product

- compliant with RoHS Directive 2015/863/EU
- 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>	30	min
<i>until functional strength at rt approx. +23 °C tensile shear strength > 10 MPa</i>	2	h
<i>until functional strength at +80 °C</i>	5	min
<i>until final strength at rt approx. +23 °C</i>	72	h
<i>until final strength at +80 °C</i>	10	min

Processing

Mixing ratio A : B - volume	1 : 1	
Mixing ratio A : B - weight	1 : 1	
Processing time after mixing		
<i>in 100 g batch at rt approx. +23 °C</i>	5	min
Reaction temperature (max.)		
<i>in 100 g batch</i>	60	°C

Storage life in unopened original container

at +18 °C to +25 °C 6 month(s)

Technical properties

Color in cured condition in 1 mm layer thickness black

Filler particle type minerals

Density of component A 1.47 g/cm³

Density of component B 1.43 g/cm³

Parameters

Tensile shear strength 16 MPa
Based on DIN EN 1465 | Al | Al | Pretreatment: sand-blasted | at approx. +23 °C | 24 h

Tensile shear strength 23 MPa
Based on DIN EN 1465 | Al | Al | Pretreatment: sand-blasted | at approx. +23 °C | 72 h

Peel resistance 6 N/mm
DELO Standard 38 | Steel | Steel | Pretreatment: sand-blasted | at approx. +23 °C | 7 d

Tensile strength 20 MPa
Based on DIN EN ISO 527 | at approx. +23 °C | 7 d

Elongation at tear 3 %
Based on DIN EN ISO 527 | at approx. +23 °C | 7 d

Young's modulus 1500 MPa
Based on DIN EN ISO 527 | at approx. +23 °C | 7 d

Shore hardness D 75
Based on DIN EN ISO 868 | at approx. +23 °C | 7 d

Ball indentation hardness 60 MPa
Based on DIN EN ISO 2039-1

Coefficient of linear expansion 153 ppm/K
DELO Standard 26 | Liquid | TMA | Evaluation T: 30 °C - 140 °C

Water absorption 0.3 wt. %
 Based on DIN EN ISO 62 | at approx. +23 °C | 7 d | Type of storage: Desiccator | Duration: 72 h

Decomposition temperature 194 °C
 DELO Standard 36

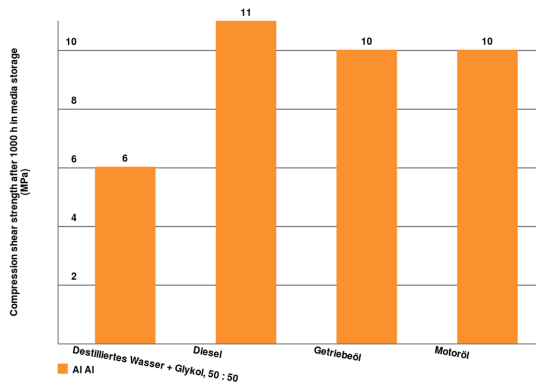
Volume resistivity >1xE+13 Ohm·cm
 Based on VDE 0303-30

Surface resistance >1xE+12 Ohm
 Based on VDE 0303-30

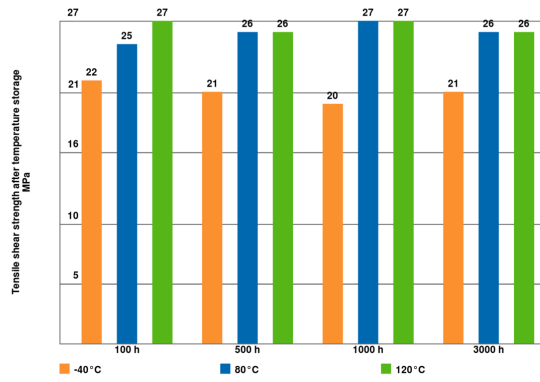
Dielectric strength 12.3 kV/mm
 Based on DIN EN 60243-1

Comparative tracking index M 600
 Based on DIN IEC 60112

Media resistance after 1000 h

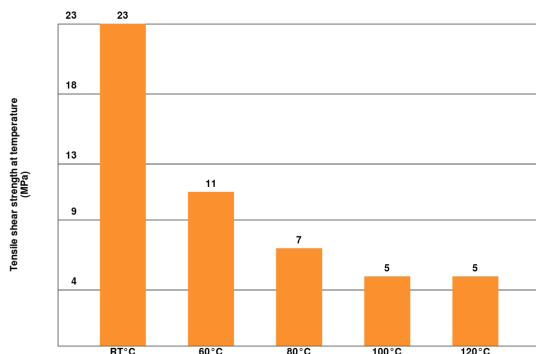


Tensile shear strength after temperature storage / based on DIN EN 1465



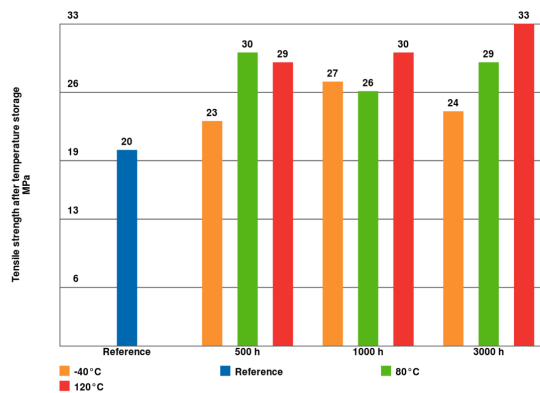
Substrates: Al / Al

Tensile shear strength measured at stated temperatures

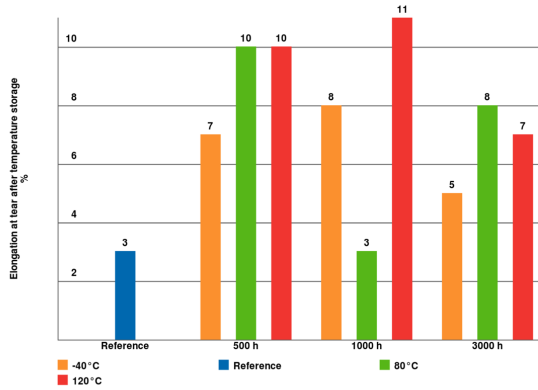


Substrates: Al / Al

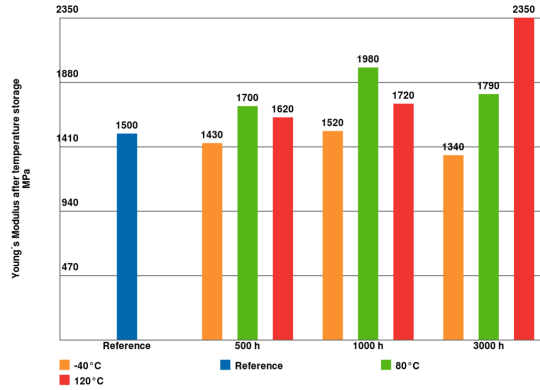
Tensile strength after temperature storage / based on DIN EN ISO 527



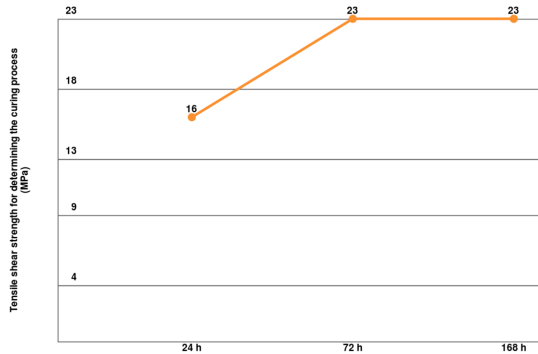
Elongation at tear after temperature storage / based on DIN EN ISO 527



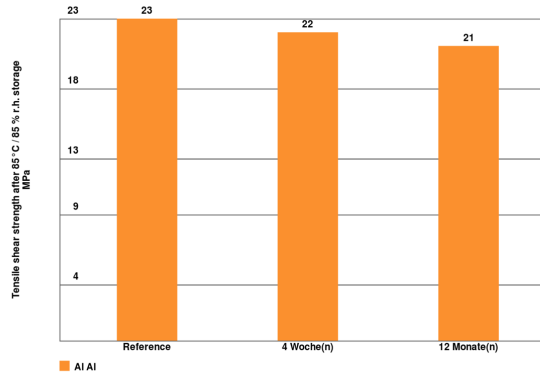
Young's Modulus after temperature storage / based on DIN EN ISO 527



Substrates: Al/Al, based on DIN EN 1465



Tensile shear strength after 85 °C / 85 % r.h. storage, based on DIN EN 1465



at roomtemperature (approx. 23 °C)

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

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

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CONTACT

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ADHESIVES

DISPENSING

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