DELO®-PUR 9895

polyurethane | 2C | room-temperature-curing

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

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

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

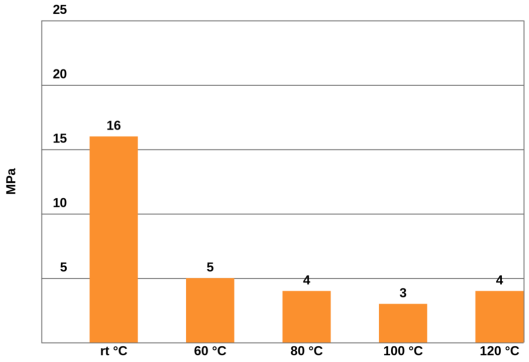
Color in cured condition in 1 mm layer thickness	beige	
Filler particle type	minerals	
Density of component A	1.48	g/cm³
Density of component B	1.44	g/cm³

Parameters

Tensile shear strength *by the criteria of DIN EN 1465 | **Al** | **Al** | Pretreatment: sand-blasted | at approx. +23 °C | 168 h*	16	MPa
Tensile shear strength *by the criteria of DIN EN 1465 | **Al** | **Al** | Pretreatment: sand-blasted | at approx. +23 °C | 168 h | Measuring temperature: 100 °C*	3	MPa
Peel resistance *DELO Standard 38 | **Steel** | **Steel** | Pretreatment: sand-blasted | at approx. +23 °C | 168 h*	10	N/mm
Tensile strength *by the criteria of DIN EN ISO 527 | at approx. +23 °C | 168 h*	10	MPa
Elongation at tear *by the criteria of DIN EN ISO 527 | at approx. +23 °C | 168 h*	70	%
Young's modulus *by the criteria of DIN EN ISO 527 | at approx. +23 °C | 168 h*	100	MPa
Shore hardness A *by the criteria of DIN EN ISO 868 | at approx. +23 °C | 168 h*	90	
Shore hardness D *by the criteria of DIN EN ISO 868 | at approx. +23 °C | 168 h*	50	
Coefficient of linear expansion *DELO Standard 26 | TMA | Evaluation T: 30 °C - 140 °C*	205	ppm/K

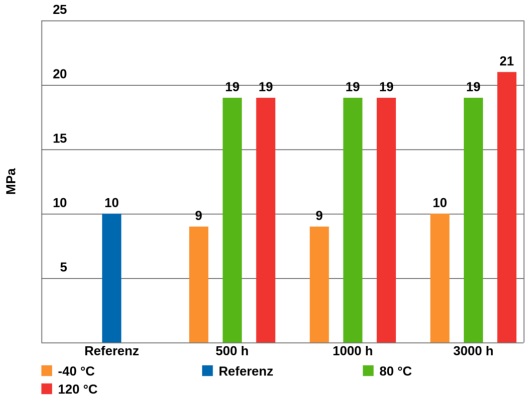
Water absorption *by the criteria of DIN EN ISO 62 | Layer thickness: 4 mm | Type of storage: Media | Medium: Distilled water | Storage temperature: at approx. +23 °C | Duration: 24 h*	0.3	wt. %
Decomposition temperature *DELO Standard 36*	221	°C
Volume resistivity	>1E12	Ohm·cm
Surface resistance *by the criteria of DIN EN 62631-3-2*	>1E14	Ohm
Dielectric strength *by the criteria of DIN EN 60243-1*	17.6	kV/mm
Comparative Tracking Index M *by the criteria of DIN EN 60112*	600	

Tensile shear strength measured at the stated temperatures

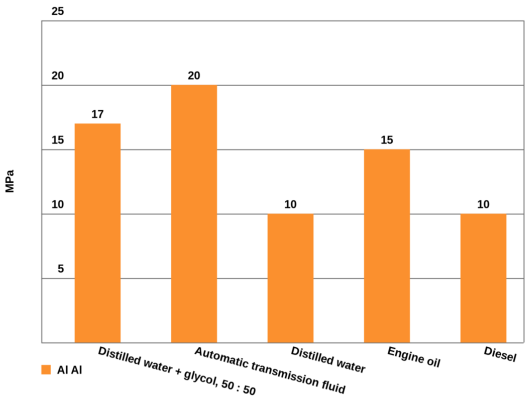


Substrates: Al / Al

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

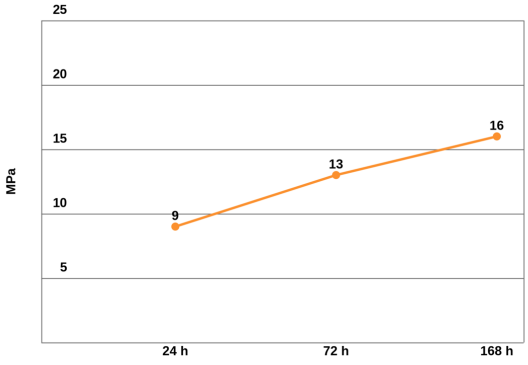


Compression shear strength after media storage for 1000 h



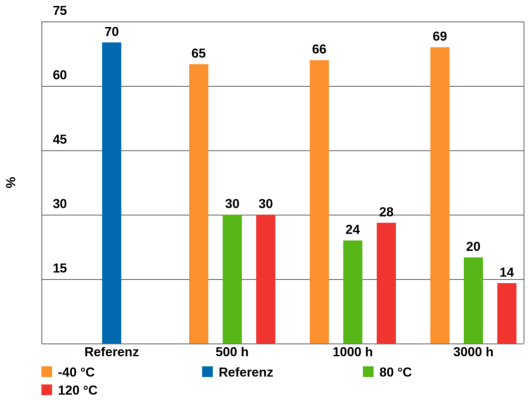
DELO Standard 5

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

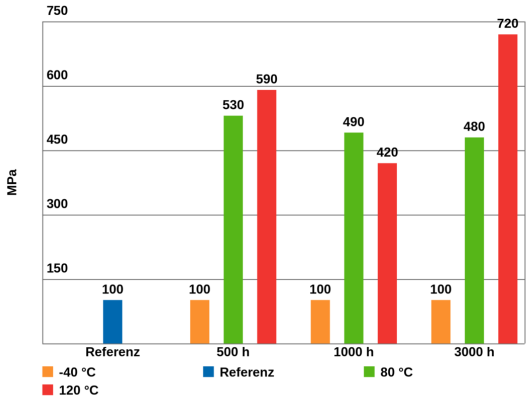


at room temperature (approx. +23 °C)

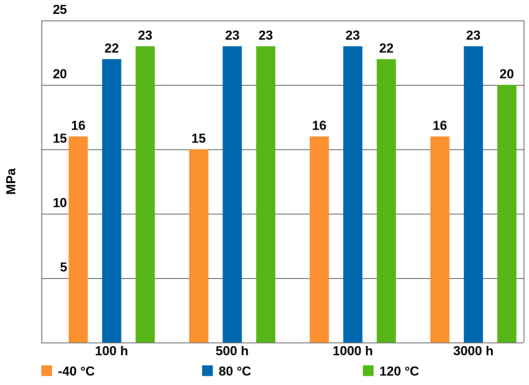
Elongation at tear after thermal storage, based on DIN EN ISO 527



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.

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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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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.

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