

# DELO<sup>®</sup>-PUR 9692

**polyurethane | 2C | room-temperature-curing**

flow-resistant

### Special features of product

- compliant with RoHS Directive 2015/863/EU
- 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>	30	min
<i>until functional strength at rt approx. +23 °C tensile shear strength &gt; 10 MPa</i>	2	h
<i>until final strength at rt approx. +23 °C</i>	72	h
<i>until functional strength at +80 °C tensile shear strength &gt; 10 MPa</i>	5	min
<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
Storage life in unopened original container		
<i>at +15 °C to +30 °C</i>	6	month(s)

### Technical properties

Color in cured condition in 1 mm layer thickness	black	
Filler information	minerals	
Filler particle size d95	40	µm
Density of component A	1.47	g/cm <sup>3</sup>
Density of component B	1.43	g/cm <sup>3</sup>

### Parameters

Viscosity <i>Component A   by the criteria of DIN 53019   liquid   Rheometer   Shear rate: 10 1/s   Gap: 500 µm</i>	80000	mPa·s
Viscosity <i>Component B   by the criteria of DIN 53019   liquid   Rheometer   Shear rate: 10 1/s   Gap: 500 µm</i>	80000	mPa·s
Tensile shear strength <i>by the criteria of DIN EN 1465   <b>AI   AI</b>   Pretreatment: sand-blasted   at approx. +23 °C   24 h</i>	16	MPa
Tensile shear strength <i>by the criteria of DIN EN 1465   <b>AI   AI</b>   Pretreatment: sand-blasted   at approx. +23 °C   72 h</i>	23	MPa
Peel resistance <i>DELO Standard 38   <b>Steel   Steel</b>   Pretreatment: sand-blasted   at approx. +23 °C   168 h</i>	6	N/mm
Tensile strength <i>by the criteria of DIN EN ISO 527   at approx. +23 °C   168 h</i>	20	MPa
Elongation at tear <i>by the criteria of DIN EN ISO 527   at approx. +23 °C   168 h</i>	3	%
Young's modulus <i>by the criteria of DIN EN ISO 527   at approx. +23 °C   168 h</i>	1500	MPa
Shore hardness D <i>by the criteria of DIN EN ISO 868   at approx. +23 °C   168 h</i>	75	
Ball indentation hardness <i>by the criteria of DIN EN ISO 2039-1</i>	60	MPa
Coefficient of linear expansion <i>DELO Standard 26   TMA   Evaluation T: 30 °C - 140 °C   at approx. +23 °C</i>	153	ppm/K

Water absorption 0.3 wt. %  
*by the criteria of DIN EN ISO 62 | Layer thickness: 4 mm | at approx. +23 °C | 168 h | Type of storage: Media | Medium: Distilled water | Storage temperature: at approx. +23 °C | Duration: 24 h*

Decomposition temperature 194 °C  
*DELO Standard 36 | at approx. +23 °C | 168 h*

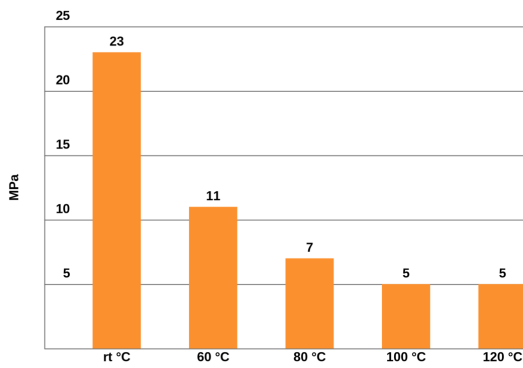
Surface resistance > 1E12 Ohm  
*by the criteria of DIN EN 62631-3-2*

Dielectric strength 12.3 kV/mm  
*by the criteria of DIN EN 60243-1*

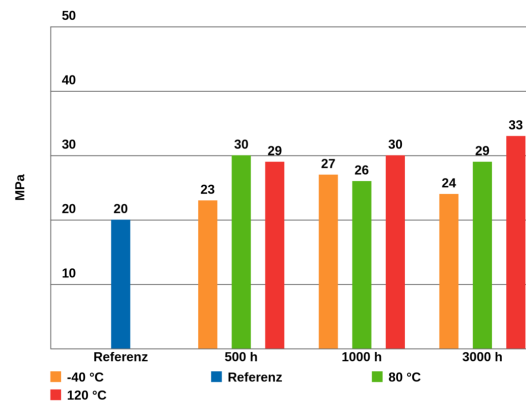
Comparative Tracking Index M 600  
*by the criteria of DIN EN 60112*

spezifischer Durchgangswiderstand > 1E13 Ohm·cm  
*by the criteria of VDE 0303-30 | liquid*

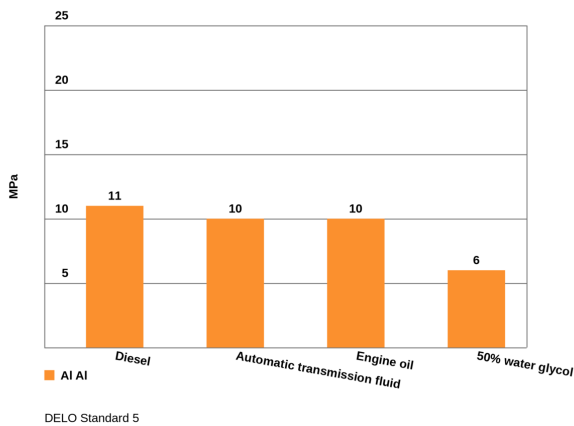
Tensile shear strength measured at the stated temperatures  
 Substrates: Al/Al, based on DIN EN 1465



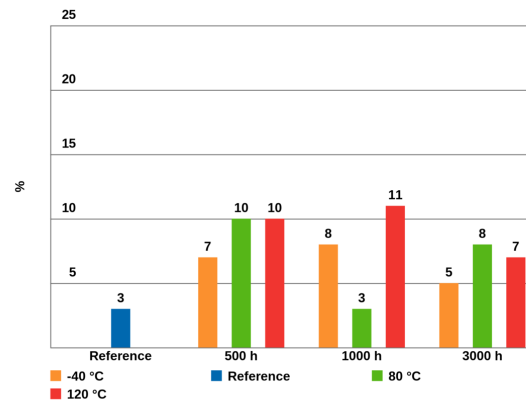
Tensile strength after thermal storage, based on DIN EN ISO 527



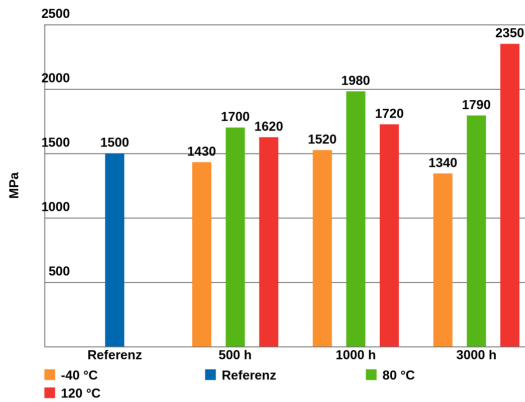
Compression shear strength after media storage for 1000 h



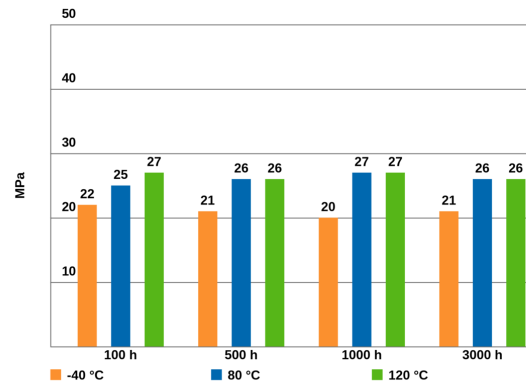
Elongation at tear after temperature storage, by the criteria of DIN EN ISO 527



Young's modulus after thermal storage  
Curing / RT



Tensile shear strength after thermal storage  
Substrates: Al/Al, by the criteria of DIN EN 1465



### 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.

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**

You can find further details in the instructions for use.

The instructions for use are available on [www.DELO-adhesives.com](http://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**

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