

DELO®-PUR 9694

polyurethane | 2C | room-temperature-curing

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

Special features of product

Curing

- compliant with RoHS Directive 2015/863/EU
- compliant with limits of VOC content in adhesive
 glass/metal bondings acc. to GB33372-2020
- passes ANSI/UL 94 HB Flame Test
- Component B is humidity-sensitive

Typical area of use

- -40 125 °C
- mixed bondings with plastics

Curing time		
until initial strength at rt approx. +23 °C tensile shear strength 1 - 2 MPa	2	h
until functional strength at rt approx. +23 °C tensile shear strength > 10 MPa	8	h
until final strength at rt approx. +23 °C	72	h
until initial strength at +80 $^{\circ}$ C tensile shear strength 1 - 2 MPa	5	min
until functional strength at +80°C tensile shear strength > 10 MPa	30	min
until final strength at +80°C	40	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	7	min



Storage life	e in unop	pened orig	jinal con	taıner
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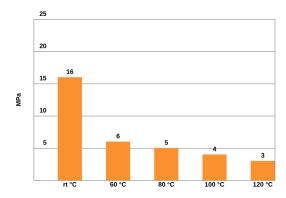
at +15 °C to +30 °C	6	month(s)
Technical properties		
Color in uncured condition	black	
Filler particle type	minerals	
Density of component A	1.47	g/cm³
Density of component B	1.43	g/cm³
Parameters		
Tensile shear strength by the criteria of DIN EN 1465 AI AI Pretreatment: sand-blasted at approx. +23 °C 72 h	16	MPa
Tensile shear strength by the criteria of DIN EN 1465 AI AI Pretreatment: sand-blasted at approx. +23 °C 168 h Measuring temperature: 100 °C	4	MPa
Compression shear strength DELO Standard 5 ABS ABS at approx. +23 °C 168 h	8	MPa
Compression shear strength DELO Standard 5 CFRP CFRP at approx. +23 °C 168 h	19	MPa
Compression shear strength DELO Standard 5 FR4 FR4 Pretreatment: Annealing at approx. +23 °C 168 h	26	MPa
Compression shear strength DELO Standard 5 PA6 PA6 Pretreatment: Annealing at approx. +23 °C 168 h	11	MPa
Compression shear strength DELO Standard 5 PBT PBT at approx. +23 °C 168 h	14	MPa
Compression shear strength DELO Standard 5 PC PC at approx. +23 °C 168 h	18	MPa
Compression shear strength DELO Standard 5 PET PET at approx. +23 °C 168 h	15	MPa
Compression shear strength DELO Standard 5 PMMA PMMA at approx. +23 °C 168 h	12	MPa



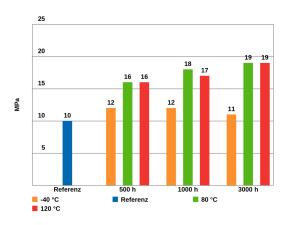
Peel resistance DELO Standard 38 Steel Steel Pretreatment: sand-blasted at approx. +23 °C 168 h	8	N/mm
Tensile strength by the criteria of DIN EN ISO 527 at approx. +23 °C 168 h	10	MPa
Elongation at tear by the criteria of DIN EN ISO 527 at approx. +23 °C 168 h	60	%
Young's modulus by the criteria of 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	
Glass transition temperature DELO Standard 24 Rheometer	40	°C
Coefficient of linear expansion DELO Standard 26 TMA Evaluation T: 30 °C - 140 °C	167	ppm/K
Shrinkage DELO Standard 13	5	vol. %
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	183	°C
Volume resistivity	>1E13	Ohm∙cm
Surface resistance by the criteria of DIN EN 62631-3-2	>1E12	Ohm
Dielectric strength by the criteria of DIN EN 60243-1	17.7	kV/mm
Comparative Tracking Index M by the criteria of DIN EN 60112	600	



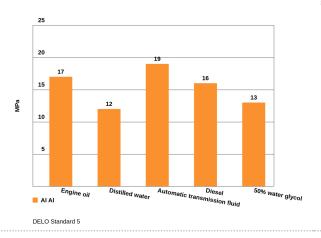
Tensile shear strength measured at the stated temperatures Substrates: Al/Al, based on DIN EN 1465



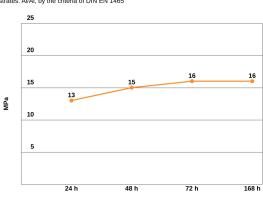
Tensile strength after thermal storage, based on DIN EN ISO 527



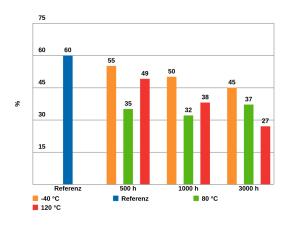
Compression shear strength after media storage for 1000 h



Tensile shear strength for determining the curing process Substrates: Al/Al, by the criteria of DIN EN 1465

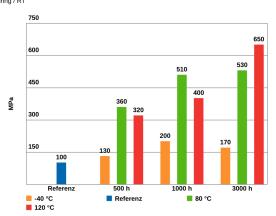


Elongation at tear after thermal storage, based on DIN EN ISO 527

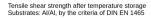


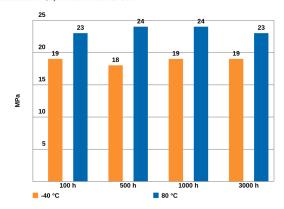
Young's modulus after thermal storage Curing / RT

at room temperature (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 q 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 $^{\circ}$ C / 50 $^{\circ}$ r. h., and the values of heat-cured samples were measured after 24 h at approx. 23 $^{\circ}$ C / 50 $^{\circ}$ 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

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DELO Industrial Adhesives Headquarters





