DELO

Technical Information

DELO®-PUR 9895

Multi-purpose 2c polyurethane, cures at room temperature, high-viscous, filled

Base

- polyurethane
- two-component

Use

- for the bonding of metal, plastic and sometimes even elastomers
- good tough-elastic properties
- very good strength under static and dynamic conditions
- suitable for larger gaps due to run-resistant consistency
- excellent for the bonding of housings
- the cured product is normally used in a temperature range of -40 °C to +125 °C; depending on the application, other limits may be more reasonable
- tested for biocompatibility and meets the requirements according to DIN EN ISO 10993-5: test for cytotoxicity
- compliant with RoHS directive 2015/863/EU
- successfully tested according to UL 94 HB

Processing

- supplied ready for use and can be processed well from the original container
- components A and B must be mixed homogeneously in the mixing ratio stated below
- using the DELO-AUTOMIX system for processing is especially advantageous
- the surfaces to be bonded must be dry as well as free of dust, grease and other contaminations
- use DELOTHEN cleaners for the cleaning of bonding surfaces

Curing

- at room temperature (approx. 23 °C)
- fast curing
- applying heat could change physical characteristics

Technical data

Color	beige
Filler	minerals
Mixing ratio	
(A : B) according to weight	1 : 1
(A : B) according to volume	1 : 1
Density of component A [g/cm³] at room temperature (approx. 23 °C)	1.48

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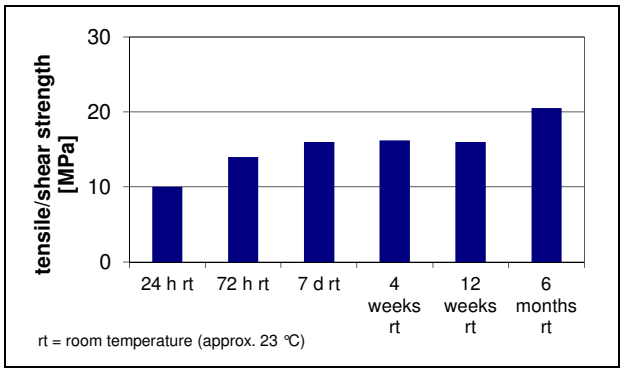
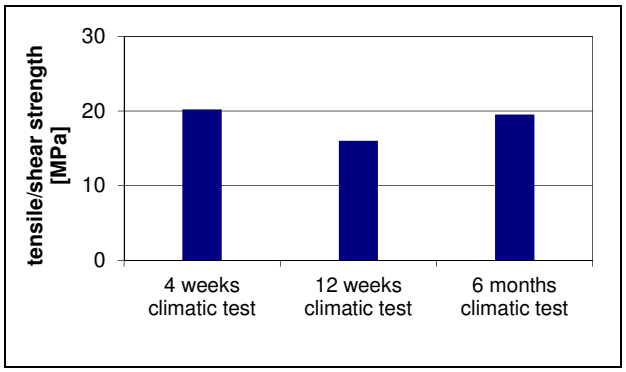
Density of component B [g/cm³] at room temperature (approx. 23 °C)	1.44
Viscosity of component A Brookfield at 23 °C	pasty
Viscosity of component B Brookfield at 23 °C	pasty
Processing time in 100 g preparation [min] at room temperature (approx. 23 °C)	30
Maximum reaction temperature [°C] in 100 g preparation	35
Curing time until initial strength [h] tensile shear strength 1 - 2 MPa at room temperature (approx. 23 °C)	5.5
Curing time until initial strength [min] at +80 °C	25
Curing time until functional strength [h] tensile shear strength > 10 MPa at room temperature (approx. 23 °C)	24
Curing time until functional strength [min] at +80 °C	60
Curing time until final strength [h] at room temperature (approx. 23 °C)	72
Curing time until final strength [min] at +80 °C	90
Tensile shear strength Al/Al [MPa] DIN EN 1465, sand-blasted component thickness: 1.6 mm after 7 days at room temperature (approx. 23 °C)	16

Tensile shear strength Al/Al
DIN EN 1465, sand-blasted
component thickness: 1.6 mm





Floating roller peel resistance St/St [N/mm] DELO Standard 38, sand-blasted component thickness: 1.5 mm	10
Temperature stability Al/Al at +100 °C [MPa] according to DIN EN 1465, sand-blasted component thickness: 1.6 mm	3
Tensile strength [MPa] DIN EN ISO 527	10
Elongation at tear [%] DIN EN ISO 527	30
Young's modulus [MPa] DIN EN ISO 527	100
Shore hardness A according to DIN EN ISO 868	90
Shore hardness D according to DIN EN ISO 868	50
Coefficient of linear expansion [ppm/K] TMA, in a temperature range of +30 to +140 °C	205
Water absorption [weight %] DIN EN ISO 62, 24 h at room temperature (approx. 23 °C)	0.3
Decomposition temperature [°C] DELO Standard 36	221
Specific volume resistance [Ωcm] VDE 0303, part 30	>1xE13
Surface resistance [Ω] VDE 0303, part 30	>1xE12

Dielectric strength [kV/mm] 17.6
VDE 0303, part 2

Creep resistance CTI 600 M
VDE 0303, part 11, DIN EN 60112

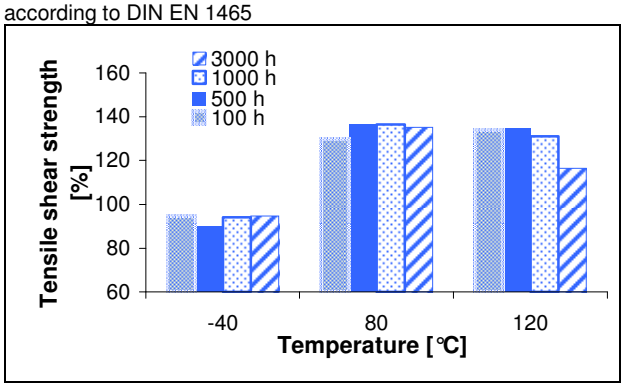
Storage life at room temperature (approx. 23 °C) 6 months
in unopened original container

Performance under chemical influence
compression shear strength after storage for 1,000 h
based on initial value at room temperature
measured at room temperature (approx. 23 °C)
according to DELO Standard 5

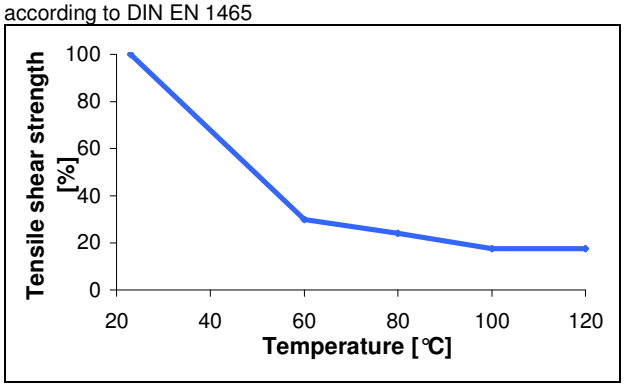
Chemical medium	Compression/shear strength Al/Al [%]
ATF gear oil	150
Diesel fuel	75
engine oil 10W40	118
demineralised water / glykol mixture 50:50	126
demineralised water	79

Performance under temperature influence

Tensile shear strength Al/Al after temperature storage
related to the initial value at room temperature
measured at room temperature (approx. 23 °C)
according to DIN EN 1465

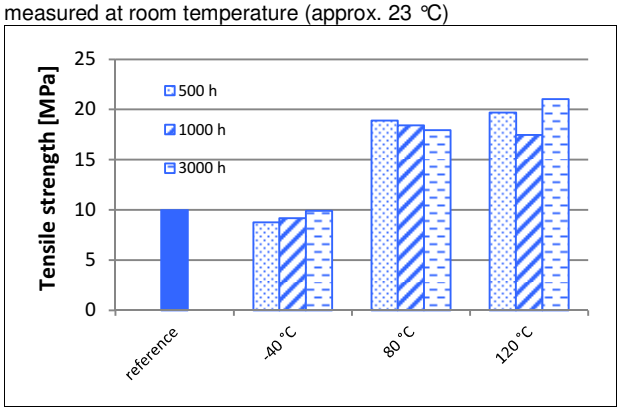


Tensile shear strength Al/Al sand- blasted at temperature
related to the initial value at room temperature
measured at temperature
according to DIN EN 1465



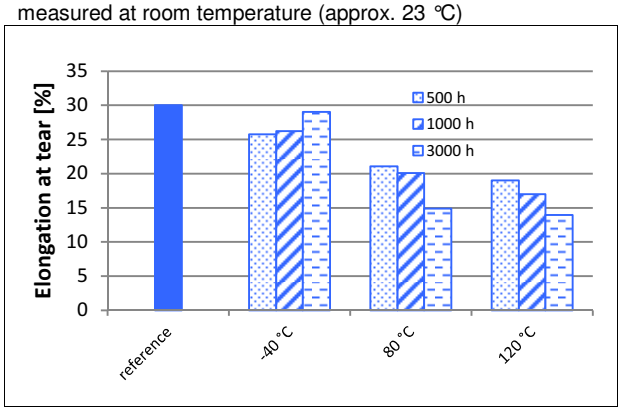
Tensile strength

after 500 h / 1,000 h / 3,000 h thermal ageing
by the criteria of DIN EN ISO 527
layer thickness: 4 mm
curing: 7 d at room temperature
measured at room temperature (approx. 23 °C)



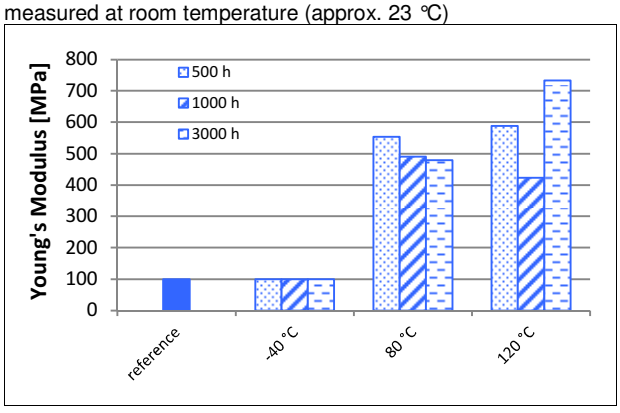
Elongation at tear

after 500 h / 1,000 h / 3,000 h thermal ageing
by the criteria of DIN EN ISO 527
layer thickness: 4 mm
curing: 7 d at room temperature
measured at room temperature (approx. 23 °C)



Young's Modulus

after 500 h / 1,000 h / 3,000 h thermal ageing
by the criteria of DIN EN ISO 527
layer thickness: 4 mm
curing: 7 d at room temperature
measured at room temperature (approx. 23 °C)



Instructions and advice

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

The instructions for use of DELO-PUR are available on: www.DELO.de. We will be pleased to send them to you on demand.

Occupational health and safety

see material safety data sheet

Specification

The properties in italics are part of the specification. Ranges with clear limits are defined for them and others, where applicable. In the course of the QA test, each batch is tested for these properties and the maintenance of the limits is ensured. The measuring methods used can deviate from those specified in the data sheet. Details can be found in the QA test report.