

### **DELO-PUR® 9691**

#### **Base**

- polyurethane
- two-part

#### **Use**

- for bonding metal, plastic and sometimes even elastomers
- good tough-elastic properties
- very good strength under static and dynamic conditions
- pourable in mixture
- also suitable for small embeddings

#### **Processing**

- components A and B must be mixed well or homogenised according to beneath stated mixing ratio
- supplied ready to use and best applied from the original container
- special advantage in using the DELO-AUTOMIX system, see selection chart about DELO-AUTOMIX system
- surfaces to be bonded should be dry, free from dust, grease and other contaminants
- DELOTHEN cleaners are recommended for cleaning

#### **Curing**

- at room temperature
- higher temperatures accelerate curing

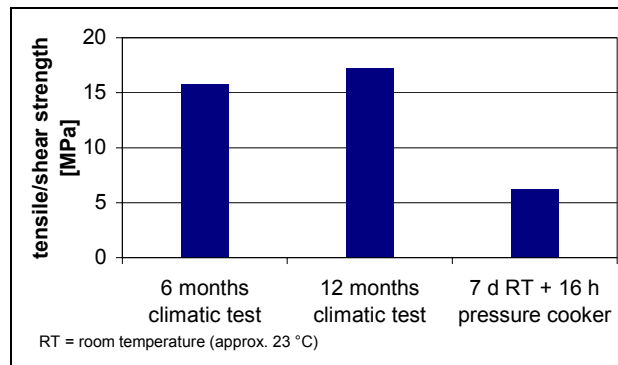
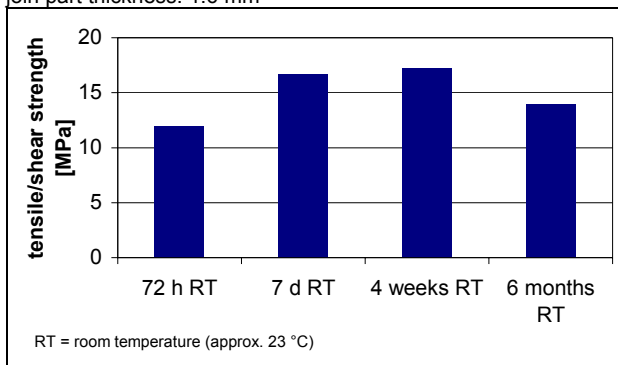
#### **Technical data**

Color	black
filler	minerals
mixing ratio (A : B) by weight	1 : 1
(A : B) by volume	1 : 1
Density [g/cm <sup>3</sup> ] at room temperature (approx. 23 °C)	1.45
viscosity component A [mPas] brookfield at 23 °C	80000
viscosity component B [mPas] brookfield at 23 °C	80000
viscosity mixture [mPas] brookfield at 23 °C	80000

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pot life in 3 g preparation [min] DIN EN 14022, at 23°C	10
pot life in 100 g preparation [min] DIN EN 14022, at 23 °C	approx. 5
processing time in 3 g preparation [min] at room temperature (approx. 23 °C)	10
maximum reaction temperature [°C] in 100 g preparation	40
Curing time until firmness to touch [min] Tensile shear strength 1 - 2 MPa	approx. 90
Curing time until final strength [h] at room temperature (approx. 23 °C)	72
Tensile shear strength Al/Al [MPa] DIN EN 1465, sand-blasted join part thickness: 1.6 mm after 24 h at room temperature (ca. 23 °C)	12

Tensile shear strength Al/Al  
DIN En 1465, sand-blasted  
join part thickness: 1.6 mm



Tensile shear strength Al/Al [MPa] DIN 54451, sand-blasted join part thickness: 6 mm after 72 h at room temperature (approx. 23 °C)	13
floating roller peel resistance St/St [N/mm] DIN 53289 according to EN 1465, sand-blasted join part thickness: 1.5 mm	14
temperature stability Al/Al at +100 °C [MPa] DIN 53286, sand-blasted join part thickness: 1.6 mm	2.5
tensile strength [MPa] DIN EN ISO 527	13
elongation at tear [%] DIN EN ISO 527	20
Young modulus [MPa] DIN EN ISO 527	500
shore hardness D DIN 53505	56
glass transition temperature [°C]	49
coefficient of elongation [ppm/K] between +25 to +140°C	162

water absorption [weight %] DIN EN ISO 62, 24 h at room temperature (approx. 23 °C)	0.24
chemical stability	very good
Recommended long-term temperature range of use [°C]	-40 to +125
temperature resistance [°C]	+180
Specific volume resistance [ $\Omega\text{cm}$ ] VDE 0303, part 3	5.1xE14
surface resistance [ $\Omega$ ] VDE 0303, part 3	1.4xE13
Dielectric strength [kV/mm] VDE 0303, part 2	16.6
creep resistance CTI VDE 0303, part 1, IEC 112	> 600 M
Storage life at room temperature (approx. 23 °C) in unopened original container	6 months

## **Instructions and advice**

### **General**

The data and information provided are based on tests performed under laboratory conditions. Reliable information about the behaviour of the product under practical conditions and its suitability for a specific purpose cannot be concluded from this.

It is the user's responsibility to test the suitability of the product for the intended purpose by considering all specific requirements. Type and 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 behaviour of the product compared to its behaviour 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.

### **Instructions for use**

The instruction for use is available under following address: [www.DELO.de](http://www.DELO.de). If requested we will also be pleased to send it to you.

### **Occupational health and safety**

see material safety data sheet

### **Specification**

see quality assurance test report