

DELO-PUR® 9692

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
- suitable for larger gaps due to run-resistance

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 ³] at room temperature (approx. 23 °C)	1.45
viscosity component A brookfield at 23 °C	pasty
viscosity component B brookfield at 23 °C	pasty
viscosity mixture brookfield at 23 °C	pasty

DELO Industrial Adhesives
DELO-Allee 1 · D-86949 Windach
Phone +49 8193 9900-0
Fax +49 8193 9900-144
E-Mail info@DELO.de · www.DELO.de

pot life in 3 g preparation [min] DIN EN 14022, at 23 °C	approx. 6														
pot life in 100 g preparation [min] DIN EN 14022, at 23 °C	approx. 5														
processing time in 100 g preparation [min] at room temperature (approx. 23 °C)	approx. 5														
maximum reaction temperature [°C] in 100 g preparation	approx. 60														
Curing time until firmness to touch [min] Tensile shear strength 1 - 2 MPa	approx. 30														
curing time until functional strenght [h] tensile/shear strenght > 10 MPa	2														
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 (approx. 23 °C)	16														
Tensile shear strength Al/Al DIN En 1465, sand-blasted join part thickness: 1.6 mm															
<table border="1"> <caption>Tensile/shear strength [MPa] vs. Curing Conditions</caption> <thead> <tr> <th>Curing Condition</th> <th>Tensile/shear strength [MPa]</th> </tr> </thead> <tbody> <tr> <td>72 h RT</td> <td>16</td> </tr> <tr> <td>7 d RT</td> <td>19</td> </tr> <tr> <td>4 weeks RT</td> <td>18</td> </tr> <tr> <td>12 weeks RT</td> <td>19</td> </tr> <tr> <td>4 weeks climatic test</td> <td>22</td> </tr> <tr> <td>12 weeks climatic test</td> <td>19</td> </tr> </tbody> </table> <p>RT = room temperature (approx. 23 °C)</p>		Curing Condition	Tensile/shear strength [MPa]	72 h RT	16	7 d RT	19	4 weeks RT	18	12 weeks RT	19	4 weeks climatic test	22	12 weeks climatic test	19
Curing Condition	Tensile/shear strength [MPa]														
72 h RT	16														
7 d RT	19														
4 weeks RT	18														
12 weeks RT	19														
4 weeks climatic test	22														
12 weeks climatic test	19														
Tensile shear strength Al/Al [MPa] DIN 54451, sand-blasted join part thickness: 6 mm after 72 h at room temperature (approx. 23 °C)	23														
floating roller peel resistance St/St [N/mm] DIN 53289 according to EN 1465, sand-blasted join part thickness: 1.5 mm	10														
temperature stability Al/Al at +100 °C [MPa] DIN 53286, sand-blasted join part thickness: 1.6 mm	8														
tensile strength [MPa] DIN EN ISO 527	20														
elongation at tear [%] DIN EN ISO 527	approx. 3														
Young modulus [MPa] DIN EN ISO 527	1500														
shore hardness D DIN 53505	75														
indentation hardness [MPa] ISO 2039, part 1	60														

coefficient of elongation [ppm/K] TMA, in a temperature range of +30 to +140 °C	153
water absorption [weight %] DIN EN ISO 62, 24 h at room temperature (approx. 23 °C)	0.3
chemical stability	very good
Recommended long-term temperature range of use [°C]	-40 to +100
temperature resistance [°C]	+160
Specific volume resistance [Ωcm] VDE 0303, part 3	3.1xE15
surface resistance [Ω] VDE 0303, part 3	5.2xE12
Dielectric strength [kV/mm] VDE 0303, part 2	12.3
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. 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