

DELO-DUOPOX® 6963

Multi-purpose 2c epoxy castin resin, cures at room temperature, low-viscous, filled

Base

- epoxy casting resin
- two-component

Use

- multi-purpose casting compound
- for casting in mechanical engineering and tool construction
- for casting in electrical engineering and electronics
- high temperature resistance
- low exothermy, suitable for larger preparations, multi-purpose
- the cured product is normally used in a temperature range of -40 °C to +150 °C; depending on the application, other limits may be more reasonable
- compliant with RoHS directive 2015/863/EU

Processing

- the high purity of the resin can lead to crystallization (solidification of the product); heating to approx. +40 to +50 °C can reverse crystallization
- sedimentation of the filler is possible; therefore, please stir single components before use
- components A and B must be mixed homogeneously in the mixing ratio stated below
- 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

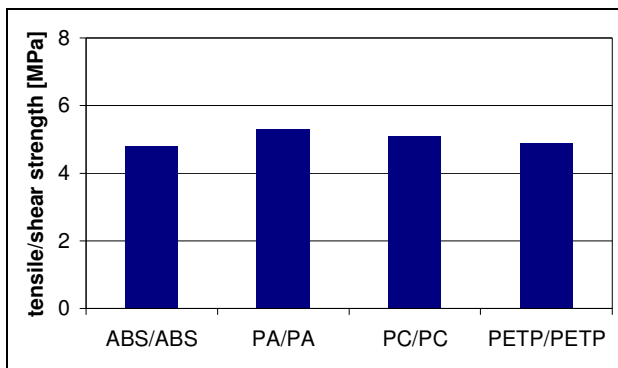
- proceeds at room temperature (approx. 23 °C)
- increased temperatures accelerate curing
- applying heat could change physical characteristics

Technical data

<i>Color</i>	beige
Filler	minerals
Mixing ratio (A : B) according to weight	3 : 1
(A : B) according to volume	9 : 4
Density of component A [g/cm ³] DELO Standard 13 at room temperature (approx. 23 °C)	1.48
Density of component B [g/cm ³] DELO Standard 13 at room temperature (approx. 23 °C)	1.09

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

Viscosity of component A [mPas] Brookfield at 23 °C	4000
Viscosity of component B [mPas] Brookfield at 23 °C	27000
Processing time in 100 g preparation [min] at room temperature (approx. 23 °C)	240
Maximum reaction temperature [°C] in 100 g preparation	30
Maximum reaction temperature [°C] in 1 kg preparation	70
Curing time until final strength [h] at room temperature (approx. 23 °C)	48
Curing time until final strength [h] at +80 °C	4
Tensile shear strength A/AI [MPa] by the criteria of DIN EN 1465, sand-blasted component thickness 1.6 mm, gap 0.1 mm curing: 48 h at room temperature (approx. 23 °C)	18
Tensile shear strength According to standard DIN EN 1465 Curing: 7 d room temperature (approx. 23 °C)	



Tensile strength [MPa] according to DIN EN ISO 527	20
Elongation at tear [%] according to DIN EN ISO 527	5
Young's modulus [MPa] according to DIN EN ISO 527	1100
Shore hardness D according to DIN EN ISO 868	70
Ball indentation hardness [MPa] ISO 2039, part 1	77
Glass transition temperature [°C] Rheometer, 2nd heating process	67
Coefficient of linear expansion [ppm/K] TMA, in a temperature range of +30 to +140 °C	164
Shrinkage [vol. %] DELO Standard 13	2

Water absorption [weight %] according to DIN EN ISO 62, 24 h at room temperature (approx. 23 °C)	0.2
Short-term temperature of use [°C]	+200
Specific volume resistance [Ωcm] VDE 0303, part 3	>1xE13
Surface resistance [Ω] VDE 0303, part 3	>1xE12
Dielectric strength [kV/mm] VDE 0303, part 2	22
Dielectric constant VDE 0303, part 4	4.2
Creep resistance CTI VDE 0303, part 1, IEC 112	600 M
Storage life at room temperature (approx. 23 °C) in unopened original container (volume per component < 1l)	12 months

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-DUOPOX 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.