

DELO-DUOPOX[®] 6950

modified epoxy resin | 2C | room-temperature-curing

unfilled | tension-equalizing

Special features of product

- compliant with RoHS Directive 2015/863/EU
- Long-term preheating of components is possible
- The filler may sediment. Therefore, the individual components must be stirred before use
- Any formation of bubbles during homogenization or mixing can be significantly minimized by using a processing system with vacuum unit

Typical area of use

- -40 - 120 °C

Curing

Curing time

until final strength

24 h

Processing

Mixing ratio A : B - volume

17 : 10

Mixing ratio A : B - weight

2 : 1

Processing time after mixing

*in 100 g batch
at rt approx. +23 °C*

95 min

Reaction temperature (max.)

in 100 g batch

120 °C

in 1,000 g batch

180 °C

Storage life in unopened original container

*up to <= 1 l per component
at +15 °C to +30 °C*

12 month(s)

Technical properties

Color in cured condition in 1 mm layer thickness

black

Parameters

Density <i>Component A DELO Standard 13 liquid</i>	1.16	g/cm ³
Density <i>Component B DELO Standard 13 liquid</i>	0.95	g/cm ³
Viscosity <i>Component A liquid Viscosimeter</i>	2100	mPa·s
Viscosity <i>Component B liquid Viscosimeter</i>	400	mPa·s
Tensile shear strength <i>Based on DIN EN 1465 AI AI Pretreatment: sand-blasted at approx. +23 °C 24 h</i>	13	MPa
Tensile strength <i>Based on DIN EN ISO 527 at approx. +23 °C 24 h</i>	23	MPa
Elongation at tear <i>Based on DIN EN ISO 527 at approx. +23 °C 24 h</i>	20	%
Young's modulus <i>Based on DIN EN ISO 527 at approx. +23 °C 24 h</i>	800	MPa
Shore hardness D <i>Based on DIN EN ISO 868 at approx. +23 °C 7 d</i>	56	
Glass transition temperature <i>DELO Standard 24 Rheometer</i>	57	°C
Coefficient of linear expansion <i>DELO Standard 26 TMA Evaluation T: 30 °C - 140 °C</i>	197	ppm/K
Shrinkage <i>DELO Standard 13 at approx. +23 °C</i>	2	vol. %
Water absorption <i>Based on DIN EN ISO 62 at approx. +23 °C 24 h Type of storage: Media Medium: Distilled water Storage temperature: at approx. +23 °C Duration: 24 h</i>	0.3	wt. %
Volume resistivity <i>Based on VDE 0303-30</i>	>1xE13	Ohm·cm
Surface resistance <i>Based on DIN EN 62631-3-2</i>	>1xE12	Ohm
Dielectric strength <i>Based on DIN EN 60243-1</i>	26	kV/mm

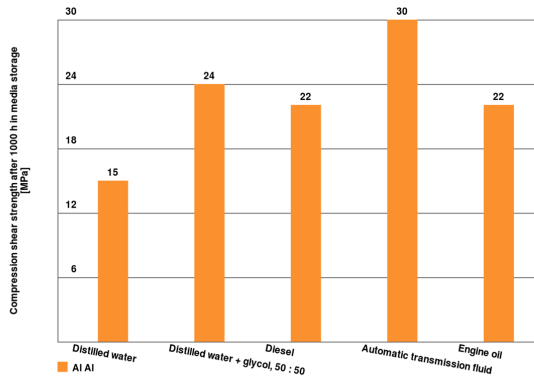
Creep resistance CTI M
Based on DIN EN 60112

600

Relative permittivity
Based on VDE 0303-4

3

Media resistance after 1000 h



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 g	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. Curing can be supported or accelerated by heat input. Additional heat input can change the physical properties of the product. Values measured after 24 h at approx. 23 °C / 50 % r.h., unless otherwise specified.

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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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

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.

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