

# DELO-DUOPOX<sup>®</sup> 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

### Function

- electronic encapsulant

### 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

Storage life in unopened original container

*at +18 °C to +25 °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 <sup>3</sup>
Density <i>Component B   DELO Standard 13   liquid</i>	0.95	g/cm <sup>3</sup>
Viscosity <i>Component A   liquid   Viscosimeter</i>	2100	mPa·s
Viscosity <i>Component B   liquid   Viscosimeter</i>	400	mPa·s
Tensile shear strength <i>by the criteria of DIN EN 1465   <b>AI</b>   <b>AI</b>   Pretreatment: sand-blasted   at approx. +23 °C   24 h</i>	13	MPa
Tensile strength <i>by the criteria of DIN EN ISO 527   at approx. +23 °C   24 h</i>	23	MPa
Elongation at tear <i>by the criteria of DIN EN ISO 527   at approx. +23 °C   24 h</i>	20	%
Young's modulus <i>by the criteria of DIN EN ISO 527   at approx. +23 °C   24 h</i>	800	MPa
Shore hardness D <i>by the criteria of 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>by the criteria of DIN EN ISO 62   Layer thickness: 4 mm   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	>1E13	Ohm·cm
Surface resistance <i>by the criteria of DIN EN 62631-3-2</i>	>1E12	Ohm
Dielectric strength <i>by the criteria of DIN EN 60243-1</i>	26	kV/mm

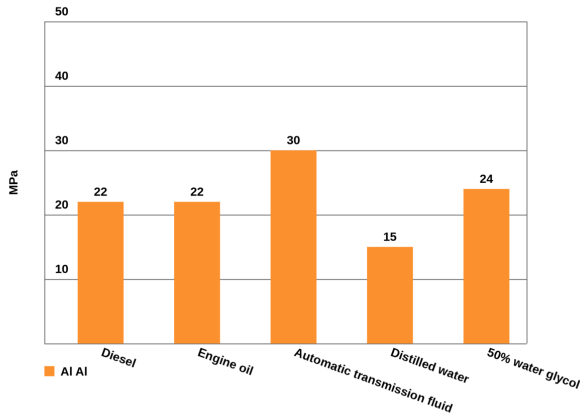
Comparative tracking index CTI M  
by the criteria of DIN EN 60112

600

Relative permittivity  
by the criteria of VDE 0303-4

3

Compression shear strength after media storage for 1000 h, DELO Standard 5



### 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.

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

You can find further details in the instructions for use.  
The instructions for use are available on [www.DELO-adhesives.com](http://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.

## CONTACT