

DELO-DUOPOX® 6963

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

filled, very good temperature resistance

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

encapsulant / potting compound

Typical area of use

-40 - 150 °C

Curing

-		
Curing time		
until final strength at rt approx. +23 °C	48	h
until final strength at +80 °C	4	h
Processing		
Mixing ratio A : B - volume	9:4	
Mixing ratio A : B - weight	3:1	
Processing time after mixing		
in 100 g batch at rt approx. +23 °C	240	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	beige	



Filler particle type	minerals	
Parameters		
Density Component A DELO Standard 13 liquid	1.48	g/cm³
Density Component B DELO Standard 13 liquid	1.09	g/cm³
Viscosity Component A liquid Viscosimeter	4000	mPa·s
Viscosity Component B liquid Viscosimeter	27000	mPa·s
Tensile shear strength by the criteria of DIN EN 1465 AI Pretreatment: sand-blasted at approx. +23 °C 48 h	18	MPa
Tensile strength by the criteria of DIN EN ISO 527 at approx. +23 °C 168 h	20	MPa
Elongation at tear by the criteria of DIN EN ISO 527 at approx. +23 °C 168 h	5	%
Young's modulus by the criteria of DIN EN ISO 527 at approx. +23 °C 168 h	1100	MPa
Shore hardness D by the criteria of DIN EN ISO 868 at approx. +23 °C 168 h	70	
Glass transition temperature DELO Standard 24 Rheometer	67	°C
Coefficient of linear expansion DELO Standard 26 TMA Evaluation T: 30 °C - 140 °C	164	ppm/K
Shrinkage DELO Standard 13 at approx. +23 °C 168 h	2	vol. %
Water absorption by the criteria of DIN EN ISO 62 Layer thickness: 4 mm at approx. +23 °C 168 h Type of storage Media Medium: Distilled water Storage temperature: at approx. +23 °C Duration: 24 h	0.2	wt. %
Volume resistivity	>1E13	0hm·cm
Surface resistance by the criteria of DIN EN 62631-3-2	>1E12	Ohm



Dielectric strength by the criteria of DIN EN 60243-1		22	kV/mm
Relative permittivity by the criteria of VDE 0303-4		4.2	
Comparative Tracking Inde	x M	600	
Converting table			
°F = (°C x 1.8) + 32 1 inch = 25.4 mm 1 mil = 25.4 µm 1 oz = 28.3495 g	1 MPa = 145.04 psi 1 GPa = 145.04 ksi 1 cP = 1 mPa·s 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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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.

CONTACT

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