DELO-DUOPOX® AD897

modified epoxy resin | 2C | room-temperature-curing
flow-resistant, suitable for side-by-side cartridges, pasty, filled

Special features of product
- compliant with RoHS Directive 2015/863/EU

Typical area of use
- -40 - 140 °C

Curing

Curing time

until initial strength
at rt approx. +23 °C
tensile shear strength 1 - 2 MPa
6 h

until functional strength
at rt approx. +23 °C
tensile shear strength > 10 MPa
8 h

until final strength
at rt approx. +23 °C
24 h

Processing

Mixing ratio A : B - volume
2 : 1

Mixing ratio A : B - weight
7 : 3

Processing time after mixing

in 100 g batch
at rt approx. +23 °C
30 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
gray

Filler particle type
minerals
### Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Density</strong>&lt;br&gt;Component A</td>
<td>1.37 g/cm³</td>
</tr>
<tr>
<td><strong>Density</strong>&lt;br&gt;Component B</td>
<td>1.17 g/cm³</td>
</tr>
<tr>
<td>Tensile shear strength&lt;br&gt;by the criteria of DIN EN 1465</td>
<td>17 MPa</td>
</tr>
<tr>
<td>Tensile shear strength&lt;br&gt;DELO Standard 39</td>
<td>32 MPa</td>
</tr>
<tr>
<td>Tensile shear strength&lt;br&gt;by the criteria of DIN EN 1465</td>
<td>2.8 MPa</td>
</tr>
<tr>
<td>Peel resistance&lt;br&gt;DELO Standard 38</td>
<td>1.3 N/mm</td>
</tr>
<tr>
<td>Tensile strength&lt;br&gt;by the criteria of DIN EN ISO 527</td>
<td>42 MPa</td>
</tr>
<tr>
<td>Elongation at tear&lt;br&gt;by the criteria of DIN EN ISO 527</td>
<td>1.8 %</td>
</tr>
<tr>
<td>Young's modulus&lt;br&gt;by the criteria of DIN EN ISO 527</td>
<td>2500 MPa</td>
</tr>
<tr>
<td>Shore hardness D&lt;br&gt;by the criteria of DIN EN ISO 868</td>
<td>77</td>
</tr>
<tr>
<td>Glass transition temperature&lt;br&gt;DELO Standard 24</td>
<td>64 °C</td>
</tr>
<tr>
<td>Coefficient of linear expansion&lt;br&gt;DELO Standard 26</td>
<td>88 ppm/K</td>
</tr>
<tr>
<td>Coefficient of linear expansion&lt;br&gt;DELO Standard 26</td>
<td>177 ppm/K</td>
</tr>
<tr>
<td>Shrinkage&lt;br&gt;DELO Standard 13</td>
<td>4 vol.%</td>
</tr>
<tr>
<td>Water absorption&lt;br&gt;by the criteria of DIN EN ISO 62</td>
<td>0.25 wt.%</td>
</tr>
</tbody>
</table>
## Decomposition temperature

DELO Standard 36 | at approx. +23 °C | 168 h  
200 °C

## Volume resistivity

>1E13 Ohm·cm

## Surface resistance

by the criteria of DIN EN 62631-3-2  
>1E13 Ohm

## Dielectric strength

by the criteria of DIN EN 60243-1  
14 kV/mm

## Relative permittivity

by the criteria of RF-IV | 1 MHz  
4.0

## Relative permittivity

by the criteria of RF-IV | 1 GHz  
3.7

## Relative permittivity

by the criteria of RF-IV | 10 MHz  
4.0

## Relative permittivity

by the criteria of RF-IV | 100 MHz  
3.9

## Comparative Tracking Index M

by the criteria of DIN EN 60112  
600
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
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