DELO-DUOPOX® CR8016
modified epoxy resin | 2C | room-temperature-curing
free of bisphenol A, free of nonylphenols | unfilled | flowable

Special features of product
- compliant with RoHS Directive 2015/863/EU
- Long-term preheating of components is possible
- Any formation of bubbles during homogenization or mixing can be significantly minimized by using a processing system with vacuum unit

Function
- encapsulant / potting compound
- electronic encapsulant

Typical area of use
- -40 - 120 °C

Processing
Mixing ratio A : B - volume
1.68 : 1
Mixing ratio A : B - weight
1.86 : 1
Processing time after mixing
- in 3 g batch at rt approx. +23 °C
  - 15 min
- in 20 g batch at rt approx. +23 °C
  - 15 min

Reaction temperature (max.)
- in 3 g batch
  - 27 °C
- in 20 g batch
  - 138 °C

Storage life in unopened original container as from production date
- at +15 °C to +30 °C
  - 9 month(s)

Technical properties
Color in cured condition in 1 mm layer thickness
- yellow
Transparency in cured condition in 1 mm layer thickness
- transparent
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Value 1</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density of component A</td>
<td>1.19</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Density of component B</td>
<td>1.04</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Viscosity of component A</td>
<td>12000</td>
<td>mPa·s</td>
</tr>
<tr>
<td>Viscosity of component B</td>
<td>6000</td>
<td>mPa·s</td>
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<tr>
<td>Tensile shear strength</td>
<td>10</td>
<td>MPa</td>
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<tr>
<td>Tensile shear strength</td>
<td>11</td>
<td>MPa</td>
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<tr>
<td>Tensile strength</td>
<td>52</td>
<td>MPa</td>
</tr>
<tr>
<td>Elongation at tear</td>
<td>2</td>
<td>%</td>
</tr>
<tr>
<td>Young’s modulus</td>
<td>2400</td>
<td>MPa</td>
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<tr>
<td>Shore hardness D</td>
<td>77</td>
<td></td>
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<tr>
<td>Glass transition temperature</td>
<td>74</td>
<td>°C</td>
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<tr>
<td>Shrinkage</td>
<td>3.5</td>
<td>vol. %</td>
</tr>
<tr>
<td>Water absorption</td>
<td>0.1</td>
<td>wt. %</td>
</tr>
</tbody>
</table>
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.

All curing or light fixation parameters depend on material thickness and absorption, adhesive layer thickness, lamp type and distance between lamp and adhesive layer.

Unless otherwise specified, the values were measured after 168 h at approx. 23 °C / 50 % r. h., and the values of heat-cured samples were measured after 24 h at approx. 23 °C / 50 % r. h.

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 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
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