

DELO[®] MONOPOX LT204

modified epoxy resin | 1C | heat-curing

free of solvents | low-temperature-curing from + 60 °C, filled

| Special features of productcompliant with RoHS Directive 2015/863/EU | Typical area of use • -40 - 150 °C | | |
|---|--|--|----------|
| Curing | | | |
| Typical curing time | | | |
| at +60 °C in air convection oven | | 90 | min |
| at +90 °C in air convection oven | | 15 | min |
| Processing | | | |
| Typical adhesive application | | screen printing, jetting, needle dispensing | |
| Conditioning time (typical) | | | |
| when stored in cold conditions in containers up to 10 ml | | 0.5 | h |
| when stored in cold conditions in containers up to 50 ml | | 1 | h |
| Processing time | | | |
| in standard climate +23 °C / 50 % r. h. | | 72 | h |
| Storage life in unopened original container | | | |
| at -25 °C to -15 °C | | 4 | month(s) |
| Technical properties | | | |
| Color in uncured condition | | black | |
| Filler particle type | | minerals | |
| Filler particle size | | d98 = 15 µm | |
| | | | |



Parameters

| Density DELO Standard 13 liquid | 1.53 | g/cm³ |
|---|-------|-------|
| Viscosity liquid Rheometer Shear rate: 10 1/s Gap: 100 μm | 28000 | mPa·s |
| Compression shear strength DELO Standard 5 ABS ABS 60 °C 90 min | 13 | MPa |
| Compression shear strength DELO Standard 5 AI AI 60 °C 90 min | 27 | MPa |
| Compression shear strength DELO Standard 5 FR4 F R4 Pretreatment: Annealing 60 °C 90 min | 26 | MPa |
| Compression shear strength DELO Standard 5 LCP GF30 LCP GF30 60 °C 90 min | 9 | MPa |
| Compression shear strength DELO Standard 5 LCP MR40 LCP MR40 60 °C 90 min | 10 | MPa |
| Compression shear strength DELO Standard 5 Ni Ni 90 °C 15 min | 33 | MPa |
| Compression shear strength DELO Standard 5 PA6 Pretreatment: Annealing 60 °C 90 min | 19 | MPa |
| Compression shear strength DELO Standard 5 PBT 60 °C 90 min | 10 | MPa |
| Compression shear strength DELO Standard 5 PMMA PMMA 60 °C 90 min | 16 | MPa |
| Compression shear strength DELO Standard 5 PPS 60 °C 90 min | 15 | MPa |
| Compression shear strength DELO Standard 5 PS 60 °C 90 min | 9 | MPa |
| Tensile strength by the criteria of DIN EN ISO 527 60 °C 90 min | 20 | MPa |
| Elongation at tear by the criteria of DIN EN ISO 527 60 °C 90 min | 35 | % |
| Young's modulus by the criteria of DIN EN ISO 527 60 °C 90 min | 400 | MPa |
| | | |



| Shore hardness D by the criteria of DIN EN ISO 868 | ? 60 °C 90 min | 77 | |
|--|--|-----|--------|
| Glass transition temperati DELO Standard 26 TMA 60 °C | | 30 | °C |
| Coefficient of linear expan DELO Standard 26 TMA Evalua | sion ation T: -10 °C - 20 °C 60 °C 90 min | 43 | ppm/K |
| Coefficient of linear expan DELO Standard 26 TMA Evalua | sion ation T: 55 °C - 170 °C 60 °C 90 min | 149 | ppm/K |
| Shrinkage DELO Standard 13 60 °C 90 m | in | 4 | vol. % |
| | Layer thickness: 4 mm 60 °C 90 min Type of storage: Media e temperature: at approx. +23 °C Duration: 24 h | 0.2 | wt. % |
| Converting table | | | |
| °F = (°C x 1.8) + 32 1 inch = 25.4 mm | 1 MPa = 145.04 psi 1 GPa = 145.04 ksi | | |

| | (• · · · •) • = | | |
|--------|-------------------|-------|--------------|
| 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. The heating time of the components must be added to the actual curing time. It depends on component size and type of heat input. The specified curing temperature must be reached directly at the adhesive. Increasing or decreasing the curing temperature and / or irradiation intensity and / or irradiation time shortens or prolongs the curing time and can lead to changed physical properties. Depending on the adhesive quantity used, exothermic reaction heat is generated which can lead to overheating. In this case, a lower curing temperature is to be selected. 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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