

EPOVIA OPTIMUM® KRF 4035 TA

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Version: 03, 08/11/2017

Product type

Bisphenol-A Epoxy Resin based vinyl ester in styrene

Appearance

Bluish

Main resin characteristics

Preaccelerated, Thixotropic, High hydrolysis resistance

Main applications

Marine, boats,
Pools,
Surficial protection (liner, top coat)

Moulding informations

Hand lay up and Spray up

Shelf life and storage

Store in the shade, out of direct sunlight. Keep storage temperature below 25°C. Unseal container just before use. Shelf-life will be reduced reaching higher temperature.

Precaution for handling

Stir the resin before use, without use air bubbles,
Read carefully the Safety Data Sheet

Note

At 23°C for 100g of test resin + 1,5g MEKP*
*MEKP type Butanox M50 or Luperox K1

FEATURES OF THE LIQUID RESIN ⁽¹⁾

| Properties | Test Method | Unit | Typical values |
|--|-----------------------|-------------------|--------------------|
| Specific weight at 20°C | | g/cm ³ | 1.00 - 1.10 |
| Brookfield viscosity at 23°C, sp 3 rpm 50 | MT-CUT23V | mPa.s | 300 - 400 |
| Solid content | MT-CU001C | % | 54 - 58 |
| Reactivity | at 23°C + 1,5% MEKP50 | | |
| Gel time ⁽²⁾ | MT-CU202R | minutes | 17 - 23 |
| 23°C - Peak | MT-CU202R | minutes | 30 - 40 |
| Exothermic peak | MT-CU202R | °C | 125 - 145 |
| Shelf life at 23°C in the dark | MT-CU002S | months | 6 |

1) Thoroughly test in your applications before full-scale use. Geltimes may vary due to the reactive nature of these materials and due to different brands of curing additives. Always test on small scale before formulating large quantities.

2) Cobalt is herewith intended as octoate. Use of different Cobalt salts could result in different gelltimes. Always test on small scale before formulating large quantities.

PROPERTIES OF THE CURED UNREINFORCED RESIN ⁽³⁾

| | | | |
|----------------------------|--|-----|-------------|
| Curing cycle | 24h at 23°C + 2h at 80°C + 1h at 120°C | | |
| Tensile strength | ISO 527 (2012) | MPa | 40 |
| Tensile modulus | ISO 527 (2012) | MPa | 3400 |
| Elongation at break | ISO 527 (2012) | % | 1.35 |
| Flexural strength | ISO 178 (2011) | MPa | 65 |
| Flexural modulus | ISO 178 (2011) | MPa | 3460 |
| HDT | ISO 75-2A (2013) | °C | 93 |

3) Properties are typical values, based on material tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

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