

Ebalta BLH Epoxy 200 / K 25

Epoxy; Epoxide
Ebalta Kunststoff GmbH

Message:

Slight discoloration of the hardener by oxygen possible. Discoloration to red-brown of hardener K 25 by oxygen, which doesn't affect the products quality. Demoulding of laminates made at room temperature (20°C) is possible. The parts show very good strength. To achieve maximum property values for example for flexural strength and heat resistance, we recommend thermal treatment at the recommended temperature.

- Applications
- Boatbuilding
 - Hand laminating
- Properties
- good curing at room temperature
 - excellent soaking of aramid fibre cloth
 - excellent soaking of glass fibre cloth
 - excellent soaking of carbon fibre cloth
 - low viscosity
 - certified according to "Germanischer Lloyd"

| General Information | | | |
|---------------------------------------------------|--------------------------|------|-------------|
| Features | Good Strength | | |
| | Low Viscosity | | |
| Uses | Laminates | | |
| Appearance | Green | | |
| Physical | Nominal Value | Unit | Test Method |
| Water Absorption | | | DIN 53495 |
| 23°C, 24 hr | 0.12 | % | |
| Saturation, 23°C ¹ | 0.29 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore D) | 78 to 82 | | ISO 7619 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 3250 to 3650 | MPa | ISO 527-2 |
| Tensile Stress | 80.0 to 86.0 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 5.1 to 5.5 | % | ISO 527-2 |
| Flexural Modulus | 2730 to 3080 | MPa | ISO 178 |
| Flexural Stress | 120 to 140 | MPa | ISO 178 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 79.0 to 83.0 | °C | ISO 75-2/A |
| Glass Transition Temperature | 85.0 | °C | TMA |
| Thermoset | Nominal Value | Unit | |
| Thermoset Components | | | |
| Hardener | Mix Ratio by Weight: 30 | | |
| Resin | Mix Ratio by Weight: 100 | | |

| | | |
|-----------------------|---------------|-------------------|
| Post Cure Time (80°C) | 12 to 15 | hr |
| Uncured Properties | Nominal Value | Unit |
| Density (20°C) | 1.11 to 1.15 | g/cm ³ |
| Viscosity (25°C) | 0.45 to 0.85 | Pa·s |
| Curing Time (20°C) | 8.0 to 10 | hr |
| Pot Life | | |
| 20°C ² | 18 to 23 | min |
| 20°C ³ | 20 to 25 | min |
| NOTE | | |
| 1. | 168 h | |
| 2. | 200 g | |
| 3. | 100 g | |

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