

Ebalta AH 120 / TL

Epoxy; Epoxide

Ebalta Kunststoff GmbH

Message:

ebalta AH 120/TL is a very thin liquid epoxy resin with high values of strength and dimensional stability. Due to its good impregnating and wetting properties it is suitable as laminating resin for high-strength components with fabrics of glass -or carbon fiber.

ebalta AH 120/TL is suitable for laminating of thin as well as thick laminates with large surface up to a thickness of 20 mm.

A post-curing should be executed, if possible before demoulding.

Applications

Laminating resin also for heavy fabrics/bonded fabrics

Vehicle construction

Aircraft construction

Properties

unfilled

high heat resistance

low viscosity

high strength

| General Information | | | |
|--|---------------------------------|-------------------|-------------|
| Features | Good dimensional stability | | |
| | Low viscosity | | |
| | High strength | | |
| | Heat resistance, high | | |
| Uses | Laminate | | |
| | Aircraft applications | | |
| | Application in Automobile Field | | |
| Appearance | White | | |
| Forms | Liquid | | |
| Hardness | Nominal Value | | Test Method |
| Durometer Hardness (Shore D) | 84 - 88 | | ISO 7619 |
| Mechanical | Nominal Value | Unit | Test Method |
| Flexural Modulus | 3050 - 3550 | MPa | ISO 178 |
| Flexural Stress | 115 - 135 | MPa | ISO 178 |
| Compressive Stress | 97.0 - 117 | MPa | ISO 604 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Unnotched Impact Strength | 45 - 55 | kJ/m ² | ISO 179 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 95.0 - 101 | °C | ISO 75-2/B |
| Thermoset | Nominal Value | Unit | |
| Thermoset Components | | | |
| Resin | Mixing ratio by weight: 100 | | |

| | | |
|------------------------------|----------------------------|-------|
| Hardening method | Mixing ratio by weight: 25 | |
| Post Cure Time | | |
| 60°C | 6.0 - 8.0 | hr |
| 90°C | 3.0 - 5.0 | hr |
| Uncured Properties | Nominal Value | Unit |
| Density (20°C) | 1.09 - 1.13 | g/cm³ |
| Viscosity (25°C) | 0.70 - 0.90 | Pa·s |
| Curing Time (20°C) | 18 - 24 | hr |
| Pot Life ¹ (20°C) | 80 - 90 | min |
| NOTE | | |
| 1. | 200 g | |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

