

Ebalta AH 110 / TL

Epoxy; Epoxide
Ebalta Kunststoff GmbH

Message:

ebalta AH 110 is an unfilled epoxy resin with high strength values and dimensional stability, even at increased temperature. It can be used as casting resin with powdered fillers as aluminium powder, laminating resin with glass fabric and binder with grainy fillers as aluminium granules. Depending on application the suitable hardener can be mixed with the resin.

AH 110/TL is suitable as binder and backfilling resin up to 100°C. For laminates post-curing is essential, if possible before demoulding.

Applications

Laminating resin also for heavy fabrics/bonded fabrics

Bonding resin for fillers

Properties

unfilled

high strength

high heat resistance

medium viscosity

General Information			
Features	General Purpose		
	Good Dimensional Stability		
	High Heat Resistance		
	High Strength		
	Medium Viscosity		
Uses	Binder		
	Bonding		
	General Purpose		
	Laminates		
Appearance	Transparent - Slight Yellow		
Processing Method	Casting		
Hardness	Nominal Value		Test Method
Shore Hardness (Shore D)	83 to 89		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	3100 to 3700	MPa	ISO 178
Flexural Stress	130 to 150	MPa	ISO 178
Compressive Stress	105 to 125	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	26 to 46	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	97.0 to 103	°C	ISO 75-2/B
Glass Transition Temperature	110	°C	DSC
Thermoset	Nominal Value	Unit	

Thermoset Components		
Hardener	Mix Ratio by Weight: 24	
Resin	Mix Ratio by Weight: 100	
Post Cure Time		
60°C	6.0 to 8.0	hr
90°C	3.0 to 5.0	hr
Uncured Properties	Nominal Value	Unit
Density (20°C)	1.11 to 1.15	g/cm ³
Viscosity (25°C)	1.2 to 1.6	Pa·s
Curing Time (20°C)	24 to 28	hr
Pot Life ¹ (20°C)	85 to 95	min
NOTE		
1.	200 g	

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