

Ebalta AH 110 / TGL

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/TGL is suitable as laminating resin for big surfaces at a temperature range until 110°C.

- 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	Bonding		
	General Purpose		
	Laminates		
Appearance	Transparent - Slight Yellow		
Processing Method	Casting		
Hardness	Nominal Value		Test Method
Shore Hardness (Shore D)	82 to 88		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	3000 to 3600	MPa	ISO 178
Flexural Stress	125 to 145	MPa	ISO 178
Compressive Stress	105 to 125	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	8.0 to 24	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	98.0 to 104	°C	ISO 75-2/B
Glass Transition Temperature	102	°C	DSC
Thermoset	Nominal Value	Unit	
Thermoset Components			

Hardener	Mix Ratio by Weight: 22	
Resin	Mix Ratio by Weight: 100	
Post Cure Time (80°C)	12	hr
Uncured Properties	Nominal Value	Unit
Density (20°C)	1.11 to 1.15	g/cm ³
Viscosity (25°C)	0.85 to 1.2	Pa·s
Curing Time (20°C)	15 to 18	hr
Pot Life ¹ (20°C)	55 to 65	min
NOTE		
1.	200 g	

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