

Ebalta AH 110 / TGS

Epoxy; Epoxide

Ebalta Kunststoff GmbH

Message:

AH 110 is a non-filled epoxy resin with high strength and dimensional stability, even at increasing temperature. It also can be used as casting resin with powder fillers as aluminium powder, as laminating resin with glass fabrics and as binding resin with granular fillers as aluminium granules.

Depending on the application it just needs to use a different hardener for the mixture.

As laminating resin AH 110 / TGS is suitable for thin high solid laminates.

Applications

Laminating resin also for heavy fabrics/bonded fabrics

Bonding resin for fillers

Properties

high strength

high heat resistance

fast curing

unfilled

medium viscosity

General Information			
Features	Fast Cure		
	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)	83 to 89		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	3000 to 3600	MPa	ISO 178
Flexural Stress	118 to 138	MPa	ISO 178
Compressive Stress	100 to 120	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	12 to 28	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	96.0 to 102	°C	ISO 75-2/B
Glass Transition Temperature	97.0	°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)	1.1 to 1.5	Pa·s
Curing Time (20°C)	6.0 to 8.0	hr
Pot Life ¹ (20°C)	20 to 25	min
NOTE		
1.	200 g	

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Recommended distributors for this material

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

