

Ebalta AH 110 / SR

Epoxy; Epoxide

Ebalta Kunststoff GmbH

Message:

AH 110/SR is an epoxy resin with high strength even on elevated temperatures. It can be used as a casting resin with powdery fillers like aluminium powder, as a laminating resin with fibre glass cloth and as a bonding resin for granular fillers like aluminium granules. Depending on the application you can choose from a variety of hardeners.

AH 110/SR is suitable for thin, high strength laminates.

Applications

Laminating resin also for heavy fabrics/bonded fabrics

Bonding resin for fillers

Properties

high strength

high heat resistance

medium viscosity

fast curing

unfilled

General Information			
Features	Fast Cure		
	General Purpose		
	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	3200 to 3800	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	43 to 73	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	91.0 to 97.0	°C	ISO 75-2/B
Glass Transition Temperature	100	°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)	1.13 to 1.17	g/cm ³
Viscosity (25°C)	1.7 to 2.1	Pa·s
Curing Time (20°C)	10 to 12	hr
Pot Life ¹ (20°C)	13 to 15	min
NOTE		
1.	200 g	

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