

Ebalta AH 120 / GL

Epoxy; Epoxide
Ebalta Kunststoff GmbH

Message:

ebalta 120/GL is a very low-viscous two-component epoxy resin with high strength values and fast curing. Due to its good soaking and wetting characteristics, this resin/hardener mixture is most suitable for solid parts with fabrics made of glass or carbon fibres.

AH 120/GL is suitable as laminating resin for both large area- and thick laminates. Due to its almost odourless and skin-friendly GL hardener it is most suitable as laminating resin.

With a mixing ratio of 100:40 you reach an about 15°C higher TG, slightly stiffer laminates as well as better impact resistance. The laminate thickness should not exceed 6-7 mm.

Applications

Laminating resin for fabrics

Vehicle construction

Aircraft construction

Properties

unfilled

low viscosity

high strength

low exothermic character

General Information			
Features	Fast Cure		
	High Strength		
	Low Exotherm		
	Low to No Odor		
	Low Viscosity		
Uses	Aircraft Applications		
	Automotive Applications		
	Laminates		
Appearance	White		
Hardness	Nominal Value		Test Method
Shore Hardness (Shore D)	82 to 86		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	3000 to 3500	MPa	ISO 178
Flexural Stress	100 to 120	MPa	ISO 178
Compressive Stress	90.0 to 110	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	43 to 53	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	61.0 to 65.0	°C	ISO 75-2/B
Thermoset	Nominal Value	Unit	
Thermoset Components			

Hardener	Mix Ratio by Weight: 32	
Resin	Mix Ratio by Weight: 100	
Uncured Properties	Nominal Value	Unit
Density (20°C)	1.09 to 1.13	g/cm ³
Viscosity (25°C)	0.83 to 1.0	Pa·s
Curing Time (20°C)	12 to 16	hr
Pot Life ¹ (20°C)	40 to 45	min
NOTE		
1.	200 g	

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