

Ebalta LH 25 / Resin+Hardener

Epoxy; Epoxide
Ebalta Kunststoff GmbH

Message:

ebalta LH 25 is a light-filled two-components epoxy resin, meeting the requirements of flammability classification S4, smoke emission classification SR-2, drooling classification ST-2 as well as test of toxicity of smoke gases of material and assembly parts of trail vehicules, according to DIN 5510-2. Regarding dimensional accuracy and -stability, laminates made of ebalta LH 25, even come up to great demands.

- Applications
- Laminate parts for rail vehicles
- Boatbuilding
- Properties
- flammability classification S 4
- smoke emission class SR-2
- drippability class ST-2
- dimensionally accurate
- test of toxicity of smoke gases - Annex C

General Information			
Features	Good Dimensional Stability		
Uses	Laminates		
Appearance	White		
Hardness	Nominal Value	Test Method	
Shore Hardness (Shore D)	85 to 91	ISO 7619	
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	4150 to 5050	MPa	ISO 178
Flexural Stress	78.0 to 94.0	MPa	ISO 178
Compressive Stress	100 to 120	MPa	ISO 604
Flexural Strain at Flexural Strength	2.1 to 2.3	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	6.5 to 9.5	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	87.0 to 93.0	°C	ISO 75-2/B
Glass Transition Temperature	89.0	°C	TMA
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 15		
Resin	Mix Ratio by Weight: 100		
Post Cure Time (80°C)	12 to 16	hr	
Uncured Properties	Nominal Value	Unit	
Density (20°C)	1.28 to 1.32	g/cm³	
Viscosity (25°C)	0.85 to 1.1	Pa · s	
Curing Time (20°C)	16 to 24	hr	
Pot Life ¹ (20°C)	50 to 60	min	

NOTE

1. 200 g

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