

Ebalta LH 30 / Resin+Hardener

Epoxy; Epoxide
Ebalta Kunststoff GmbH

Message:

ebalta LH 30 is a two components epoxy laminating resin, precuring at room temperature and, depending on postcuring, can be used till 175°C. Since this laminating resin system contains no fillers, it has got good wetting properties and makes a high glass fabric content possible. This leads to a low coefficient of thermal expansion and high strength. Together with aluminium granules, ebalta LH 28-1 is suitable for back filling of heat resistant moulds and moulding tools.

- Applications
- High temperature resistant laminating tools
 - RIM tools
 - Prepreg tools
- Properties
- low exothermic character
 - long processing time
 - medium viscosity
 - very high heat resistance
 - heat curing

General Information			
Features	Heat Cure		
	High Heat Resistance		
	High Strength		
	Low Exotherm		
	Medium Viscosity		
Uses	Laminates		
	Molds/Dies/Tools		
Appearance	Brown		
Hardness	Nominal Value		Test Method
Shore Hardness (Shore D)	85 to 91		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2850 to 3350	MPa	ISO 178
Flexural Stress	62.0 to 74.0	MPa	ISO 178
Compressive Stress	90.0 to 110	MPa	ISO 604
Flexural Strain at Flexural Strength	2.2 to 2.6	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	3.5 to 5.5	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	176 to 186	°C	ISO 75-2/B
Glass Transition Temperature	200	°C	TMA
Thermoset	Nominal Value	Unit	
Thermoset Components			

Hardener	Mix Ratio by Weight: 42	
Resin	Mix Ratio by Weight: 100	
Post Cure Time		
40°C	4.0 to 6.0	hr
60°C	4.0 to 6.0	hr
100°C	4.0 to 6.0	hr
150°C	4.0 to 6.0	hr
Uncured Properties	Nominal Value	Unit
Density (20°C)	1.06 to 1.10	g/cm³
Viscosity (25°C)	1.7 to 2.7	Pa·s
Curing Time (20°C)	> 48	hr
Pot Life ¹ (20°C)	160 to 200	min
NOTE		
1.	200 g	

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