

Ebalta LH 28-1 / TM

Epoxy; Epoxide
Ebalta Kunststoff GmbH

Message:

ebalta LH 28-1 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. At room temperature the curing takes 7 days and the material can only be used for applications till 60°C.

- Applications
- Vacuum forming tools
 - Prepreg tools
 - hot gluing tools
 - Blow moulds
 - Polyester injection moulds
 - Polyester press tools
- Properties

- very high heat resistance, depending on post curing till 175°C
- long processing time
- low exothermic character
- heat curing

General Information			
Features	Heat Cure		
	High Heat Resistance		
	High Strength		
	Low Exotherm		
Uses	Laminates		
	Molds/Dies/Tools		
Appearance	Brown		
Hardness	Nominal Value	Test Method	
Shore Hardness (Shore D)	82 to 88	ISO 7619	
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2550 to 3050	MPa	ISO 178
Flexural Stress	85.0 to 105	MPa	ISO 178
Compressive Stress	77.0 to 93.0	MPa	ISO 604
Flexural Strain at Flexural Strength	3.4 to 4.6	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	10 to 22	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	172 to 178	°C	ISO 75-2/B
Glass Transition Temperature	182	°C	DSC
Thermoset	Nominal Value	Unit	

Thermoset Components		
Hardener	Mix Ratio by Weight: 40	
Resin	Mix Ratio by Weight: 100	
Post Cure Time		
40°C	4.0	hr
60°C	6.0	hr
100°C	4.0	hr
135°C	4.0	hr
160°C	4.0	hr
Uncured Properties	Nominal Value	Unit
Density (20°C)	1.07 to 1.13	g/cm³
Viscosity (25°C)	0.65 to 0.85	Pa·s
Curing Time (20°C)	24 to 48	hr
Pot Life ¹ (20°C)	240 to 360	min
NOTE		
1.	200 g	

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