

Ebalta GH 723 / D

Epoxy; Epoxide
Ebalta Kunststoff GmbH

Message:

ebalta GH 723/D is a very well castable two-components epoxy resin, which, after curing at room temperature, can be worked on well with tools for metalworking.

This system is a most suitable back cast resin for moulds of which the back has to be worked on mechanically after curing. For back-casting round aluminium granules are used, for bulking: rough aluminium granules. Since the resin/hardener mixture is very liquid, a 50-100 weightcontent of fillers like aluminium granules or silica sand has to be added to get a back-cast mass of 100-200 mm thickness. Under normal circumstances a thickness of 40 mm can be reached with GH 723/D.

Applications

Bonding resin for fillers

Properties

low viscosity

very well castable

well workable

General Information			
Filler / Reinforcement	Aluminum		
Features	Low Viscosity		
Uses	Bonding		
Appearance	Green		
Forms	Liquid		
Processing Method	Casting		
Hardness	Nominal Value		Test Method
Shore Hardness (Shore D)	84 to 90		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	5850 to 6650	MPa	ISO 178
Flexural Stress	60.0 to 70.0	MPa	ISO 178
Compressive Stress	63.0 to 77.0	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	5.8 to 6.8	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	44.0 to 48.0	°C	ISO 75-2/B
CLTE - Flow	6.3E-5	cm/cm/°C	DIN 53752
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 7.0		
Resin	Mix Ratio by Weight: 100		
Uncured Properties	Nominal Value	Unit	
Density (20°C)	1.70 to 1.80	g/cm ³	
Viscosity (25°C)	1.3 to 1.8	Pa · s	
Curing Time (20°C)	16 to 20	hr	

Pot Life ¹ (20°C)	55 to 65	min
NOTE		
1.	200 g	

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