

Ebalta GH 706 / GLE

Epoxy; Epoxide
Ebalta Kunststoff GmbH

Message:

ebalta GH 706/GLE is a well castable two-components epoxy resin, which cures at room temperature and can be casted till 20 mm thickness. The resin GH 706 contains very fine hard fillers and with hardener GLE it has got a very hard, wear resistant surface with high compression strength and impact resistance.

ebalta GH 706 is the castable version of the very hard gelcoat OH 6-1.

Applications

Foundry patterns

Core boxes

Pattern plates

Coping models

Properties

abrasion resistant

fine structure

good compressive strength

very hard

wear resistant

well castable

castable up to 15 mm

General Information			
Filler / Reinforcement	Filler		
Features	Good Abrasion Resistance		
	Good Compressive Strength		
	Good Impact Resistance		
	Good Wear Resistance		
	High Hardness		
Appearance	Blue		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage	0.11	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	87 to 93		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	6150 to 7350	MPa	ISO 178
Flexural Stress	77.0 to 93.0	MPa	ISO 178
Compressive Stress	78.0 to 94.0	MPa	ISO 604
Taber Abrasion Resistance (250 Cycles, 1000 g, CS-10 Wheel)	23.0	mg	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	7.0 to 11	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	48.0 to 52.0	°C	ISO 75-2/B
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 18		
Resin	Mix Ratio by Weight: 100		
Uncured Properties	Nominal Value	Unit	
Density (20°C)	2.00 to 2.10	g/cm ³	
Viscosity (25°C)	8.0 to 12	Pa·s	
Curing Time (20°C)	12 to 16	hr	
Pot Life ¹ (20°C)	30 to 40	min	
NOTE			
1.	200 g		

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