

Ebalta GH 760 / GL

Epoxy; Epoxide
Ebalta Kunststoff GmbH

Message:

ebalta GH 760/GL is a two-components epoxy resin, curing at room temperature, castable to 40 mm.
The fine non-grinding fillers lead to good surface slip properties and mechanical workability. For this reason ebalta GH 760/GL is especially suitable for metal sheet tools as well as for foundry equipment.
Due to its high strength and excellent dimensional accuracy this system is quite versatile.

Applications

Foundry patterns

Core boxes

Boards

Control castings

jig

Hammer form tools

Stretch forming tool

Stretch tools

Properties

dimensionally accurate

abrasion resistant

high strength

castable until 40 mm

very good sliding properties

General Information			
Filler / Reinforcement	Filler		
Features	High strength		
	Good wear resistance		
Uses	Mold/Mold/Tool		
Appearance	Grey		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage	0.10	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	86 - 92		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	6750 - 7750	MPa	ISO 178
Flexural Stress	90.0 - 110	MPa	ISO 178
Compressive Stress	110 - 130	MPa	ISO 604
Taber Abrasion Resistance (500 Cycles, 500g, CS-17 wheel)	20.0	mg	Internal method
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	7.5 - 11	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	61.0 - 65.0	°C	ISO 75-2/B

CLTE - Flow (20 to 50°C)	5.9E-5	cm/cm/°C	DIN 53752
Thermoset	Nominal Value	Unit	
Thermoset Components			
Resin	Mixing ratio by weight: 100		
Hardening method	Mixing ratio by weight: 10		
Additional Information			
Wear jet test : 257 W(V/t) [mm³/min] (internal tests)			
Uncured Properties	Nominal Value	Unit	
Density (20°C)	2.15 - 2.25	g/cm³	
Viscosity (25°C)	8.5 - 11	Pa · s	
Curing Time (20°C)	18 - 24	hr	
Pot Life ¹ (20°C)	45 - 55	min	
NOTE			
1.	200 g		

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