

Ebalta GH 781 / GH 781 S

Epoxy; Epoxide

Ebalta Kunststoff GmbH

Message:

ebalta GH 781 is a heat resistant two components epoxy resin with very low thermal expansion and high mechanical strength.

ebalta GH 781 is suitable to pour on a cast aluminium carrier (sandblast surface). With a thickness of 10-20 mm you get a high quality surface with good thermal conductivity. With hardener GH 781 S a better curing and therefore shorter curing time is reached. For any amendments, repairs and sealings we also have a putty system available. By means of this system together with HRS hardener thicknesses of 5-6 mm can be reached.

Applications

PU-foaming tools

Heatable foundry patterns

Properties

heat resistant

short curing time

high strength

low thermal expansion

General Information			
Features	Fast Cure		
	High Strength		
	Medium Heat Resistance		
Uses	Molds/Dies/Tools		
Appearance	Grey		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage	0.050	%	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	9800 to 12800	MPa	ISO 178
Flexural Stress	80.0 to 100	MPa	ISO 178
Compressive Stress	135 to 155	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	6.0 to 8.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	113 to 119	°C	ISO 75-2/B
CLTE - Flow	3.5E-5 to 4.0E-5	cm/cm/°C	DIN 53752
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 5.0		
Resin	Mix Ratio by Weight: 100		
Uncured Properties	Nominal Value	Unit	

Density (20°C)	2.60 to 2.80	g/cm ³
Viscosity (25°C)	11 to 16	Pa·s
Curing Time (20°C)	12 to 14	hr
Pot Life ¹ (20°C)	90 to 110	min
NOTE		
1.	1000 g	

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