

# Ebalta GH 705 / TL

Epoxy; Epoxide  
Ebalta Kunststoff GmbH

## Message:

ebalta GH 705/TL is a thick-castable, aluminium-filled, heat-resistant, two-components epoxy resin, which shows aluminium-like properties after curing at room temperature.  
Due to high aluminium contents GH 705/TL shows good thermal conductivity, is well workable and has a low linear expansion coefficient.

Applications

- PU-foaming tools
- RIM foam tools
- Vacuum forming tools
- Heatable foundry patterns

Properties

- high heat resistance
- aluminium-like

General Information			
Filler / Reinforcement	Aluminum		
Features	High Heat Resistance		
	Thermally Conductive		
Uses	Molds/Dies/Tools		
Appearance	Grey		
Processing Method	Casting		
Hardness	Nominal Value		Test Method
Shore Hardness (Shore D)	83 to 89		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	6900 to 7500	MPa	ISO 178
Flexural Stress	75.0 to 85.0	MPa	ISO 178
Compressive Stress	75.0 to 85.0	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	10 to 16	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	88.0 to 94.0	°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: 10		
Resin	Mix Ratio by Weight: 100		
Post Cure Time			
60°C	8.0 to 12	hr	
80°C	8.0 to 12	hr	
Uncured Properties	Nominal Value	Unit	

Density (20°C)	1.65 to 1.75	g/cm <sup>3</sup>
Viscosity (25°C)	6.3 to 7.7	Pa·s
Curing Time (20°C)	16 to 24	hr
Pot Life <sup>1</sup> (20°C)	65 to 75	min
NOTE		
1.	200 g	

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#### Recommended distributors for this material

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