

# Ebalta ebatemp / PUR 5

Polyurethane  
Ebalta Kunststoff GmbH

Message:

ebalta ebatemp is a high-quality two-component Polyurethane casting resin, which is very suitable for the production of vacuum thermoformed mouldings. The fast casting resin, which is filled with very fine aluminium powder is very well castable and after curing very well polishable and workable. With ebatemp vacuum thermoformed mouldings can be produced within 1-2 hours, these moldings show a temperature capacity of 80-90°C. Post-curing is not necessary.  
Material should be carefully stirred up/ shaken before use.

Applications

Vacuum forming tools

Foundry pattern

Negatives

Properties

very smooth surface

polishable

well castable

well workable

aluminium filled

General Information			
Filler / Reinforcement	Aluminum		
Features	Fast Cure		
Appearance	Grey		
Processing Method	Casting		
	Vacuum Casting		

Physical	Nominal Value	Unit	Test Method
Molding Shrinkage	0.13	%	Internal Method

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	77 to 83		ISO 7619

Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	4300 to 5100	MPa	ISO 178
Flexural Stress	35.0 to 45.0	MPa	ISO 178
Compressive Stress	51.0 to 61.0	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	3.5 to 4.5	kJ/m²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	87.0 to 93.0	°C	ISO 75-2/B

Thermoset	Nominal Value	Unit
Thermoset Components		
Hardener	Mix Ratio by Weight: 16	
Resin	Mix Ratio by Weight: 100	

Uncured Properties	Nominal Value	Unit
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Density (20°C)	1.60 to 1.70	g/cm <sup>3</sup>
Viscosity (25°C)	1.0 to 1.6	Pa·s
Curing Time (20°C)	1.0 to 2.0	hr
Pot Life <sup>1</sup> (20°C)	4.5 to 5.5	min
NOTE		
1.	200 g	

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#### Recommended distributors for this material

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