

Ebalta SG 700 / PUR 5

Polyurethane
Ebalta Kunststoff GmbH

Message:

ebalta SG 700 is a two-component-Polyurethane casting resin, which cures very fast at room temperature. The very good workability and the excellent mechanical properties makes SG 700 a material with versatile application possibilities.

ebalta SG 700 A is even more abrasion-resistant, but not so well workable by machine. Displacements, even made of wood, can be filled in.

Material should be carefully stirred up/shaked before use.

Applications

Foundry patterns

Core boxes

fixtures

Negatives

Control castings

Prototypes

Properties

well castable

fine structure

dimensionally accurate

fast curing

versatile

General Information			
Features	Fast Cure		
Uses	Prototyping		
Appearance	Blue		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage	0.15	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80 to 86		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	4100 to 4900	MPa	ISO 178
Flexural Stress	36.0 to 44.0	MPa	ISO 178
Compressive Stress	55.0 to 65.0	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)	75.0 to 81.0	°C	ISO 75-2/B
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 15		
Resin	Mix Ratio by Weight: 100		
Uncured Properties	Nominal Value	Unit	
Density (20°C)	1.65 to 1.75	g/cm³	

Viscosity (25°C)	0.80 to 1.0	Pa·s
Curing Time (20°C)	1.0 to 2.0	hr
Pot Life ¹ (20°C)	5.0 to 6.0	min

NOTE

1. 200 g

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