Ebalta SG 700 A / 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
abrasion resistant
well castable
fine structure
dimensionally accurate
fast curing
versatile

General Information			
Features	Fast Cure		
	Good Abrasion Resistance		
Uses	Prototyping		
Appearance	Blue		
Processing Method	Casting		

Hardness	Nominal Value		Test Method
Shore Hardness (Shore D)	80 to 86		ISO 7619

Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	4020 to 4920	MPa	ISO 178
Flexural Stress	38.0 to 48.0	MPa	ISO 178
Compressive Stress	48.0 to 58.0	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	3.7 to 5.7	kJ/m²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Martens Temperature	47 to 51	°C	DIN 53458

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)	1.70 to 1.80	g/cm³

Viscosity (25°C)	1.5 to 2.2	Pa·s
Curing Time (20°C)	1.0 to 2.0	hr
Pot Life [1] (20°C)	5.0 to 7.0	min
NOTE		
1.	200 g	

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