

# Ebalta SG 600 / PUR 4

Polyurethane  
Ebalta Kunststoff GmbH

Message:

SG 600 is a very thin liquid two-component Polyurethane casting resin, which cures very fast at room temperature. The fine structure and the very good flow properties, make it possible to produce exact castings with high mechanical and thermal properties.

SG 600 cures very fast at room temperature, so that the produced castings can be demoulded after 30 minutes. SG 600 can be easily processed and is very well mechanically workable, so that the material can be used versatile.

Material should be carefully stirred up/ shaked before use.

Applications

Foundry patterns

Core boxes

Control castings

Negatives

Prototypes

Mould probes for trimming of prototypes

Properties

fine structure

well workable

very well castable

General Information			
Features	Fast Cure		
	Good Flow		
Uses	Prototyping		
Appearance	Red		
Forms	Liquid		
Processing Method	Casting		
Hardness	Nominal Value		Test Method
Shore Hardness (Shore D)	82 to 88		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	4900 to 5900	MPa	ISO 178
Flexural Stress	35.0 to 45.0	MPa	ISO 178
Compressive Stress	62.0 to 78.0	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	2.4 to 2.8	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Martens Temperature	69 to 73	°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)	1.55 to 1.65	g/cm³	

Viscosity (25°C)	0.90 to 1.3	Pa·s
Curing Time (20°C)	1.0 to 2.0	hr
Pot Life <sup>1</sup> (20°C)	4.0 to 6.0	min

NOTE

1. 200 g

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