

# Ebalta SG 2000 / Comp. A+B

Polyurethane  
Ebalta Kunststoff GmbH

Message:

The product group ebalta SG 2000 consists of high-quality, nearly odourless two-component-Polyurethane casting resins without mixed in filler. The filler is stirred in when the components are mixed. There are different resin components available, which are processed with one hardener. The single types differ in potlife and curing time.

The fast curing of the materials leads to a short demoulding time. The very thin binding agent effects a high filler content. The addition of different fillers determines the properties and strength.

- Applications
- Foundry patterns
  - Core boxes
  - Negatives
  - Control castings
  - Coping models
  - Vacuum forming tools
  - Mould probes for trimming of prototypes
- Properties
- unfilled
  - very thin liquid
  - high filler content possible
  - good curing
  - very high strength
  - very heat resistant

| General Information                                |                      |       |             |
|--|----------------------|-------|-------------|
| Features   | Fast Cure            |       |             |
|  | High Heat Resistance |       |             |
|  | High Strength        |       |             |
|  | Low to No Odor       |       |             |
| Appearance   | Ivory                |       |             |
| Forms  | Liquid               |       |             |
| Processing Method                                  | Casting              |       |             |
| Hardness   | Nominal Value        |       | Test Method |
| Shore Hardness (Shore D)                           | 70 to 74             |       | ISO 7619    |
| Mechanical   | Nominal Value        | Unit  | Test Method |
| Flexural Modulus                                   | 1400 to 1600         | MPa   | ISO 178     |
| Flexural Stress                                    | 52.0 to 62.0         | MPa   | ISO 178     |
| Compressive Stress                                 | 40.0 to 50.0         | MPa   | ISO 604     |
| Impact   | Nominal Value        | Unit  | Test Method |
| Charpy Unnotched Impact Strength                   | 20 to 28             | kJ/m² | ISO 179     |
| Thermal  | Nominal Value        | Unit  | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 83.0 to 89.0         | °C    | ISO 75-2/B  |
| Thermoset  | Nominal Value        | Unit  |             |
| Thermoset Components                               |                      |       |             |

Mix Ratio by Volume: 89

Hardener

Mix Ratio by Weight: 100

Mix Ratio by Weight: 100

Resin

Mix Ratio by Volume: 100

| Uncured Properties           | Nominal Value  | Unit              |
|------------------------------|----------------|-------------------|
| Density (20°C)               | 1.08 to 1.12   | g/cm <sup>3</sup> |
| Viscosity (25°C)             | 0.045 to 0.055 | Pa·s              |
| Curing Time (20°C)           | 0.50 to 1.0    | hr                |
| Pot Life <sup>1</sup> (20°C) | 2.5 to 3.5     | min               |

#### NOTE

1. 200 g

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