

Ebalta GM 976 / PUR 1

Polyurethane
Ebalta Kunststoff GmbH

Message:

ebalta GM 976 is an easy-to-handle-2 components-polyurethane casting compound which shows very low adhesive properties compared to moulding sand. Due to its very high abrasion resistance, GM 976 is especially suitable for foundry patterns, which have to resist to abrasive wear by moulded sand. GM 976 even keeps its high mechanical strength when using moulding sands with higher temperatures.

- Applications
- Core boxes
 - Foundry pattern
 - well castable
- Properties
- abrasion resistant
 - good compressive strength

General Information			
Features	Good Abrasion Resistance		
	Good Compressive Strength		
Appearance	Green		
Processing Method	Casting		
Hardness	Nominal Value	Test Method	
Shore Hardness (Shore D)	85 to 91	ISO 7619	
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	5030 to 5530	MPa	ISO 178
Flexural Stress	70.0 to 80.0	MPa	ISO 178
Compressive Stress	80.0 to 90.0	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	8.0 to 12	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	67.0 to 71.0	°C	ISO 75-2/B
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 30		
Resin	Mix Ratio by Weight: 100		
Uncured Properties	Nominal Value	Unit	
Density (20°C)	1.55 to 1.65	g/cm ³	
Viscosity (25°C)	3.5 to 4.5	Pa · s	
Curing Time (20°C)	4.0 to 10	hr	
Pot Life ¹ (20°C)	25 to 35	min	
NOTE			
1.	200 g		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

