

Ebalta GM 979 / PUR 1

Polyurethane
Ebalta Kunststoff GmbH

Message:

ebalta GM 979 is an easy-to-handle-2components-polyurethane casting compound which shows very low adhesive properties compared to moulding sand. Due to its high abrasion resistance, GM 979 is especially suitable for foundry patterns, which have to resist to abrasive wear by moulded sand. GM 979 even keeps its high mechanical strength when using moulding sands with higher temperatures.

- Applications
- Pattern plates
 - Foundry patterns
 - Core boxes
 - Negatives
- Properties
- wear resistant
 - good compressive strength
 - impact resistant
 - heat resistant
 - excellent demoulding from mould and core sand properties

General Information			
Features	Good Compressive Strength		
	Good Impact Resistance		
	Good Wear Resistance		
	Medium Heat Resistance		
Appearance	Green		
Processing Method	Casting		
Hardness	Nominal Value		Test Method
Shore Hardness (Shore D)	87 to 93		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	6200 to 7200	MPa	ISO 178
Flexural Stress	63.0 to 73.0	MPa	ISO 178
Compressive Stress	80.0 to 90.0	MPa	ISO 604
Taber Abrasion Resistance (250 Cycles, 500 g, H-18 Wheel)	125	mg	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	5.0 to 6.0	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	77.0 to 83.0	°C	ISO 75-2/B
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 25		
Resin	Mix Ratio by Weight: 100		
Uncured Properties	Nominal Value	Unit	

Density (20°C)	1.60 to 1.70	g/cm ³
Viscosity (25°C)	3.7 to 5.3	Pa·s
Curing Time (20°C)	8.0 to 12	hr
Pot Life ¹ (20°C)	25 to 35	min
NOTE		
1.	200 g	

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