Ebalta GM 714 / PUR 4

Polyurethane

Ebalta Kunststoff GmbH

Message:

ebalta GM 714 is a slow-curing versatile 2-components polyurethane casting compound. It's wear resistant, shows low shrinkage and for this reason it's very suitable for sheet metal forming moulds and big volume moulds for solid casting.
Applications
Foundry patterns
Pattern plates
Moulding tools
Properties
very thick castable
wear resistant
dimensionally accurate
abrasion resistant
versatile

General Information			
Features	Good Abrasion Resistance		
	Good Wear Resistance		
	Low Shrinkage		

Appearance	Grey		
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	6080 to 6420	MPa	ISO 178
Flexural Stress	55.0 to 65.0	MPa	ISO 178
Compressive Stress	58.0 to 68.0	MPa	ISO 604
Taber Abrasion Resistance (500 Cycles, 1000 g, CS-17 Wheel)	41.0	mg	Internal Method

Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	4.7 to 5.9	kJ/m^2	ISO 179

Thermal	Nominal Value	Unit	Test Method
Martens Temperature	33 to 43	°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)	2.05 to 2.15	g/cm^3	
Viscosity (25°C)	5.0 to 6.0	Pa·s	
Curing Time (20°C)	12 to 18	hr	

Pot Life [1] (20°C)	40 to 45		min
NOTE			
1.	200 g		

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