

Ebalta GM 978 / D

Epoxy; Epoxide
Ebalta Kunststoff GmbH

Message:

GM 978/D is a modified 2-components epoxy resin system, which cures at room temperature. In cured state the mechanical properties and strengths of moulded parts are like those of injection moulded parts. For this reason inspection samples and experimental moulds are cast, which are made of injection moulded parts later. With GM 978/D parts of wall thicknesses of 5 - 8 mm are cast in simple resin moulds. Both components can be stirred bubble-free manually with a round stirring rod or bigger quantities with a mechanical mixer. Mix both components very carefully and intensively.

- Applications
- Foundry patterns
 - Core boxes
 - Prototypes with thermoplastic like properties
- Properties
- very shock resistant
 - well castable
 - castable up to 8 mm

General Information			
Features	High Impact Resistance		
	Shock Resistant		
Uses	Prototyping		
Appearance	Black		
Processing Method	Casting		
Hardness	Nominal Value		Test Method
Shore Hardness (Shore D)	75 to 79		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1150 to 1350	MPa	ISO 178
Flexural Stress	35.0 to 45.0	MPa	ISO 178
Compressive Stress	31.0 to 37.0	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	63 to 77	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	58.0 to 62.0	°C	ISO 75-2/B
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 17		
Resin	Mix Ratio by Weight: 100		
Uncured Properties	Nominal Value	Unit	
Density (20°C)	1.04 to 1.08	g/cm ³	
Viscosity (25°C)	1.5 to 2.5	Pa · s	
Curing Time (20°C)	10 to 12	hr	
Pot Life ¹ (20°C)	35 to 45	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

