

Ebalta GM 959 / GM 959-1

Polyurethane
Ebalta Kunststoff GmbH

Message:

This product is a polyurethane system.
By mixing of hardeners shore hardness between A 40 and A 80 can be reached (see mixing table).
The product can be subject to colour variations due to raw materials, but these colour variations have no influence on the quality and the properties of the product.

Applications

Casting moulds for concrete
Casting mould for cement
Casting mould for ceramic materials
Casting mould for wax
Casting mould for gypsum
Casting mould for plastic
Prototypes with rubber-like properties

Properties

shore A hardness 80
shore hardness (flexibility) variable
excellent flow properties
good degasing
easily dyeable
high tear strength

General Information			
Features	Good Colorability		
	Good Flexibility		
	Good Tear Strength		
	High Flow		
Uses	Molds/Dies/Tools		
	Prototyping		
Appearance	Amber		
Processing Method	Casting		
Hardness	Nominal Value		Test Method
Shore Hardness (Shore A)	78 to 82		ISO 7619
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield)	7.60 to 9.20	MPa	ISO 37
Tensile Elongation ² (Break)	800 to 1000	%	ISO 37
Tear Strength ³ (1.00 mm)	16 to 17	kN/m	ISO 34-1
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 50		
Resin	Mix Ratio by Weight: 100		
Uncured Properties	Nominal Value	Unit	

Density (20°C)	1.02 to 1.06	g/cm ³
Viscosity (25°C)	1.2 to 1.6	Pa·s
Curing Time (20°C)	20 to 24	hr
Pot Life ⁴ (20°C)	22 to 28	min

NOTE

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|----|--------------------------------------|
| 1. | Type 2 |
| 2. | Type 2 |
| 3. | Arch shaped test piece with incision |
| 4. | 200 g |

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