

# Ebalta MG 707 / Z 400

Polyurethane  
Ebalta Kunststoff GmbH

Message:

This prooduct is a 2-components polyurethane material, which is cured thermically and used for prototypes. The four mentioned formulations differ in being filled or non-filled and their mechanical properties.

Applications

High quality prototypes like PP/PE

Vehicle construction

Domestic articles

Consumer goods

Properties

high impact strength

good flexural strength

Working temperature range from -40°C until 100°C

long processing time

General Information			
Features	High Impact Resistance		
Uses	Automotive Applications		
	Consumer Applications		
	Prototyping		
Appearance	White		
Hardness	Nominal Value	Test Method	
Shore Hardness			ISO 7619
Shore D, 100°C	71 to 75		
Shore D, 70°C	75 to 79		
Shore D, 20°C	77 to 81		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	41.0 to 51.0	MPa	ISO 527-2
Tensile Strain (Break)	11 to 13	%	ISO 527-2
Flexural Modulus	1300 to 1700	MPa	ISO 178
Flexural Stress	58.0 to 68.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	14 to 34	kJ/m²	ISO 179
Unnotched Izod Impact			ASTM D256
-40°C	490 to 580	J/m	
20°C	490 to 580	J/m	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	104 to 110	°C	ISO 75-2/B
Glass Transition Temperature	120	°C	TMA
Thermoset	Nominal Value	Unit	

Thermoset Components		
Hardener	Mix Ratio by Weight: 30	
Resin	Mix Ratio by Weight: 100	
Post Cure Time (100°C)	12	hr
Uncured Properties	Nominal Value	Unit
Density (20°C)	1.10 to 1.14	g/cm <sup>3</sup>
Curing Time (50°C)	0.67 to 0.75	hr
Pot Life <sup>1</sup> (20°C)	8.0 to 12	min
NOTE		
1.	200 g	

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