

# Ebalta MG 425 / PUR 19

Polyurethane  
Ebalta Kunststoff GmbH

Message:

ebalta MG 425 is processed on a two-component low pressure device.

The systems MG 400 / MG 425 / MG 475 are cured with the hardener PUR 19. For this product range potlife can be set until 2,5 min.

By mixing MG 425 with MG 400 the E-modulus can vary between 630 - 1550 MPa. MG 475 and MG 480 are finished mixtures.

After grinding with a sand paper , grit 280, the surface can be varnished with a commercial lacquer. For better adhesion we recommend the use of a primer coat. Nitrocellulose lacquers have a better adhesion on polyurethane surfaces than on acryl-lacquer-systems.

Applications

Functional parts automotive field

Functional parts EDP field

Prototyping parts EDP field

Prototypes in the automotive field

Cladding parts automotive field

Cladding parts EDP field

Properties

medium E-modulus

high impact resistance

excellent flow properties

General Information			
Features	High Flow		
	High Impact Resistance		
Uses	Automotive Applications		
	Prototyping		
Appearance	Black		
Processing Method	Casting		
	Reaction Injection Molding (RIM)		
Hardness	Nominal Value		Test Method
Shore Hardness (Shore D)	73 to 77		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1400 to 1700	MPa	ISO 178
Flexural Stress	56.0 to 68.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	68 to 92	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	71.0 to 75.0	°C	ISO 75-2/B
Glass Transition Temperature	80.0	°C	DSC
Thermoset	Nominal Value	Unit	
Thermoset Components			

Mix Ratio by Volume: 77

Hardener

Mix Ratio by Weight: 90

Mix Ratio by Weight: 100

Resin

Mix Ratio by Volume: 100

Post Cure Time (60°C)	4.0 to 5.0	hr
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Uncured Properties	Nominal Value	Unit
Density (20°C)	1.13 to 1.17	g/cm <sup>3</sup>
Viscosity (25°C)	0.65 to 0.85	Pa·s
Curing Time (20°C)	0.33 to 0.50	hr
Pot Life (20°C)	0.83 to 1.0	min

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