

# Ebalta MG 321 FR / Comp. A+B

Polyurethane  
Ebalta Kunststoff GmbH

Message:

ebalta MG 321 FR is processed on a two-component low pressure device.  
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  
Cladding parts EDP field  
Cladding parts medical sector  
Interior / Exterior of rail vehicle

Properties  
self-extinguishing based on UL 94 V0  
self-extinguishing based on UL 5 V0  
high heat resistance

General Information			
Features	High Heat Resistance		
Uses	Prototyping		
Appearance	Natural Color		
Processing Method	Casting		
Hardness	Nominal Value		Test Method
Shore Hardness (Shore D)	77 to 83		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1900 to 2100	MPa	ISO 178
Flexural Stress	59.0 to 69.0	MPa	ISO 178
Compressive Stress	63.0 to 73.0	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	19 to 23	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	117 to 123	°C	ISO 75-2/B
Glass Transition Temperature	130 to 136	°C	DMA
CLTE - Flow	1.2E-4	cm/cm/°C	DIN 53752
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
3.00 mm	V-0		
4.00 mm	5VA		
Thermoset	Nominal Value	Unit	
Thermoset Components			

Mix Ratio by Volume: 51

Hardener

Mix Ratio by Weight: 50

Mix Ratio by Weight: 100

Resin

Mix Ratio by Volume: 100

Post Cure Time

80°C	4.0	hr
120°C	2.0	hr

Uncured Properties	Nominal Value	Unit
Density (20°C)	1.20 to 1.26	g/cm <sup>3</sup>
Viscosity (25°C)	1.5 to 2.5	Pa·s
Curing Time (50°C)	0.33 to 0.50	hr
Pot Life (20°C)	1.2 to 1.3	min

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