

Ebalta MG 454 / Comp. A+B

Polyurethane
Ebalta Kunststoff GmbH

Message:

ebalta MG 454 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.

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

good impact strength

high rigidity

glassfibre filled

mechanical processable

| General Information | | | |
|--|-------------------------|----------|-------------|
| Filler / Reinforcement | Glass Fiber | | |
| Features | Good Impact Resistance | | |
| | High Rigidity | | |
| Uses | Automotive Applications | | |
| | 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 | 2000 to 2200 | MPa | ISO 178 |
| Flexural Stress | 54.0 to 60.0 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Unnotched Impact Strength | 9.0 to 13 | kJ/m² | ISO 179 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 90.0 to 100 | °C | ISO 75-2/B |
| Glass Transition Temperature | 107 | °C | DSC |
| CLTE - Flow | 9.5E-5 | cm/cm/°C | DIN 53752 |
| Thermoset | Nominal Value | Unit | |
| Thermoset Components | | | |

Mix Ratio by Volume: 57

Hardener

Mix Ratio by Weight: 60

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) | 1.00 | g/cm ³ |
| Curing Time (50°C) | 0.083 to 0.25 | hr |
| Pot Life (20°C) | 1.0 to 1.3 | min |

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