

Ebalta MG 703 / 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 | 66 to 70 | | |
| Shore D, 70°C | 72 to 76 | | |
| Shore D, 20°C | 75 to 79 | | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | 35.0 to 45.0 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 23 to 27 | % | ISO 527-2 |
| Flexural Modulus | 1190 to 1490 | MPa | ISO 178 |
| Flexural Stress | 47.0 to 57.0 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Unnotched Impact Strength | 57 to 97 | kJ/m² | ISO 179 |
| Unnotched Izod Impact | | | ASTM D256 |
| -40°C | 670 to 820 | J/m | |
| 20°C | 890 to 1000 | J/m | |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 78.0 to 84.0 | °C | ISO 75-2/B |
| Glass Transition Temperature | 105 | °C | TMA |
| Thermoset | Nominal Value | Unit | |

| | | |
|------------------------------|--------------------------|-------------------|
| Thermoset Components | | |
| Hardener | Mix Ratio by Weight: 31 | |
| 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 ³ |
| Curing Time (50°C) | 0.67 to 0.75 | hr |
| Pot Life ¹ (20°C) | 8.0 to 12 | min |
| NOTE | | |
| 1. | 200 g | |

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