

Product Texts

- suited especially for investment casting
- excellent dimensional accuracy
- very high surface quality
- good strength for use as lost pattern

The typical application for PrimeCast 101 is the production of lost patterns for the plaster and ceramic shell casting process. The material is optimised for minimum residue ash content after burning-out. Another application for PrimeCast 101 is the production of master patterns for vacuum casting, hereby it is advised to infiltrate the parts with e.g. epoxy resin.

| Mechanical properties | Value | Unit | Test Standard |
|-----------------------|-------|------|---------------|
| ISO Data | | | |
| Tensile Modulus | 1600 | MPa | ISO 527-1/-2 |
| Tensile Strength | 5.5 | MPa | ISO 527-1/-2 |
| Strain at break | 0.4 | % | ISO 527-1/-2 |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|------|----------------|
| ISO Data | | | |
| Glass transition temperature (10°C/min) | 105 | °C | ISO 11357-1/-2 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Density | 760 | kg/m ³ | ISO 1183 |

Characteristic

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Processing

Laser Sintering