

## Material data sheet

### PrimeCast® 101 for EOSINT P

#### Application

PrimeCast 101 is suitable for the use in all systems EOSINT P 350 with Upgrade '99 and exchangeable frame, P 360, P 380, P 380i, P 385, P 390 and P 700. The recommended layer thickness is 0.15 mm.

The typical application for the material is the production of lost patterns for the plaster casting process. Generally PrimeCast 101 is also suitable for ceramic shell casting, however special measures against shell cracking are necessary. Another application for PrimeCast 101 is the production of master patterns for vacuum casting. The sieved, recycled powder can be completely reused.

#### Material Properties

Average particle size	Coulter Counter	80 ± 5	µm
Bulk density	DIN 53466	0.61 ± 0.02	g/cm <sup>3</sup>
Density of laser-sintered parts	EOS-Method	0.70 - 0.85	g/cm <sup>3</sup>

#### Mechanical Properties

Tensile Strength, X-/Y-direction	DIN EN ISO 527	5.5 ± 1.0	N/mm <sup>2</sup>
Tensile Strength, Z-direction	DIN EN ISO 527	1.2 ± 0.3	N/mm <sup>2</sup>
Tensile Modulus	DIN EN ISO 527	1600 ± 250	N/mm <sup>2</sup>
Elongation at break	DIN EN ISO 527	0.4 ± 0.1	%

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### Thermal Properties

Glass transition temperature	DIN 53765	105 ± 1	°C
Material destruction	DIN 51006	250 - 550	°C
Remaining ash content	EOS-Method	0.002	%

The mechanical properties depend on the exposure parameters used.

The data are based on our latest knowledge and are subject to changes without notice. They do not guarantee properties

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