PrimeCast 100 for EOSINT P

Application:

PrimeCast 100 is suitable for the use in all systems EOSINT P 350 with Upgrade `99 and exchangeable frame, P 360, P 380 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 100 is also suitable for ceramic shell casting, however special measures against shell cracking are necessary. Another application for PrimeCast 100 is the production of master patterns for vacuum casting.

Material Properties:

Average particle size	Coulter Counter	80 ± 5	µm
Bulk density	DIN 53466	0.61 ± 0.02	g/cm³
Density of laser-sintered parts	EOS-Method	0.70 - 0.85	g/cm³

Mechanical Properties:

Tensile Strength, X-/Y-direction	DIN EN ISO 527	5.5 ± 1.0	N/mm²
Tensile Strength, Z-direction	DIN EN ISO 527	1.2 ± 0.3	N/mm²
Tensile Modulus	DIN EN ISO 527	1600 ± 250	N/mm²
Elongation at break	DIN EN ISO 527	0.4 ± 0.1	%

Thermal Properties:

Glass transition temperature	DIN 53765	105 ± 1	°C
Material destruction	DIN 51006	250 - 550	°C
Remaining ash content	DIN EN ISO 3451-1	0.002	%

All data refer to laser sintered test parts when not otherwise specified and is based on our most recent state of knowledge. We accept no responsibility for errors and do not guarantee the specified properties.

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