

PrimeCast 101

PS

EOS GmbH - Electro Optical Systems

Product Texts

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PrimeCast 101, a grey powder on polystyrene basis, is suited especially for investment casting due to its excellent dimensional accuracy and its low melting point. Laser-sintered parts made from PrimeCast 101 possess excellent material properties:

- 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, herby it is advised to infiltrate the parts with e.g. epoxy resin.

Mechanical properties	Value	Unit	Test Standard
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
Glass transition temperature (10°C/min)	105	°C	ISO 11357-1/-2
Decomposition Temperature	229 - 555	°C	DIN 51006

Other properties	Value	Unit	Test Standard
Density (lasersintered)	770	kg/m ³	EOS Method

Characteristics

Processing

Laser Sintering, Rapid Prototyping