

PrimeCast® 101

Specialty Polystyrene

EOS GmbH

Message:

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.

General Information			
Features	Good Strength		
	Outstanding Surface Finish		
Uses	Mold Making		
	Molds/Dies/Tools		
	Patterns		
	Prototyping		
Appearance	Grey		
Forms	Powder		
Processing Method	3D Printing, Laser Sintering/Melting		
Physical	Nominal Value	Unit	Test Method
Density	0.770	g/cm ³	Internal Method
Decomposition Temperature	229 to 555	°C	DIN 51006
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1600	MPa	ISO 527-2
Tensile Stress	5.50	MPa	ISO 527-2
Tensile Strain (Break)	0.40	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ¹	105	°C	ISO 11357
NOTE			
1.	10°C/min		

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Recommended distributors for this material

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