

PRODUCT DESCRIPTION

For the production of cast patterns we utilize a polystyrene material that has a low residual ash, and is easily processed after infiltration with wax or epoxy resin. Nearly any metal can be investment cast, but typical materials include A356 Aluminum and Titanium alloys.

3D DATA

The properties of parts manufactured using laser sintering are due to their layer-by-layer production, to some extent direction dependent. This has to be considered with designing the part and defining the build orientation.

	VALUE	UNIT	TEST STANDARD
Tensile Modulus (X Direction)	1600	MPa	ISO 527-1/-2
Tensile Strength (X Direction)	5.5	MPa	ISO 527-1/-2
Strain at Break (X Direction)	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 (Laser Sintered)	770	kg/m ³	EOS Method

CHARACTERISTIC

Processing –
Laser Sintering

Delivery Form –
Grey

Manufacturer –
EOS (PrimeCast 101)

Source: www.materialdatacenter.com
Last Change: 2010-10-15

The data corresponds to our knowledge and experience at the time of publication. They do not on their own represent a sufficient basis for any part design, neither do they provide any agreement about or guarantee the specific properties of a product or part or the suitability of a product or part for a specific application. It is the responsibility of the producer or customer of a part to check its properties as well as its suitability for a particular purpose. This also applies regarding the consideration of possible intellectual property rights as well as laws and regulations. The data are subject to change without notice as part of EOS' continuous development and improvement processes.

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NWRM004V1-1/2013