

MATERIAL SPECIFICATIONS

PS-100

HIGHLIGHTS

- Excellent surface finish and feature detail
- Parts exhibit strong “green” strength characteristics
- Easy to process on most LS platforms
- Economical and environmentally friendly material, exhibiting 100% recyclability

APPLICATIONS

- Production or prototyping investment casting patterns for use in lost wax casting systems
- Dissolvable core for mandrels and model lay-ups
- Ideal for casting applications requiring robust “green” parts to stay intact during the casting process

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	U.S. Standard	METRIC
Colour/Appearance	Visual	White	White
Bulk Density	ASTM D1895	0.260 oz/in ³	0.61 g/cm ³
Average Particle Size (D50)	Laser Diffraction	0.002 inches	80 microns
Sintered Part Density	ASTM D792	0.590 oz/in ³	0.77 g/cm ³
Ultimate Tensile Strength (XY)	ASTM D638	943 psi	6.5 MPa
Ultimate Tensile Strength (Z)	ASTM D638	218 psi	1.5 MPa
Tensile Modulus (XY)	ASTM D638	268,320 psi	1850 MPa
Elongation at Break (XY)	ASTM D638	1.5%	1.5%
Glass Transition Temperature	DIN 53765	221°F	105°C
Material Destruction	DIN 51006	482-1022°F	250-550°C
Ash Content	DIN EN ISO 3451-1	0.002%	0.002%

For reference use only. Actual properties may vary significantly from those listed above based on processing parameters, operating conditions and end use applications. The above properties were based on virgin ALM PS-100 using normal processing parameters on a 2500+ platform as outlined in the ALM Material Processing Guide. Advanced Laser Materials, LLC makes no warranties of materials for any application, nor does it make a warranty of any type, expressed or implied, but not limited to, the warranties of merchantability for a particular purpose.



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