

# MATERIAL SPECIFICATIONS

## PS-200

### HIGHLIGHTS

- Very low density and ash content
- Compatible with standard foundry processes and practices
- Easy and efficient pattern removal and wax infiltration
- 100% recyclable

### APPLICATIONS

- Complex investment casting patterns
- Automotive and marine components
- Mould and rapid tooling applications
- Ideal for casting applications with low melt temperature metals

## TYPICAL PHYSICAL PROPERTIES - Infiltrated, Red Wax

PROPERTY	TEST METHOD	U.S. STANDARD	METRIC
Colour/Appearance	Visual	White	White
Bulk Density	ASTM D1895	0.266 oz/in <sup>3</sup>	0.46 g/cm <sup>3</sup>
Ash Content	ASTM D482	0.02%	0.02%
Average Particle Size (D50)	Laser Diffraction	0.002 inches	62 microns
Particle Size Range (D10-D90)	Laser Diffraction	0.001 - 0.004 inches	25 -106 microns
Glass Transition Temperature (Tg)	ASTM D3418	192°F	89°C
Heat Deflection Temperature	ASTM D648	92°F @ 66 psi	33°C @ 0.45 MPa
Heat Deflection Temperature	ASTM D648	104°F @ 264 psi	40°C @ 1.82 MPa
Tensile Strength	ASTM D638	412 psi	2.84 MPa
Tensile Modulus	ASTM D638	233 psi	1,604 MPa
Izod Impact Strength - Notched	ASTM D256	0.2 ft-lb/in	11 J/m
Izod Impact Strength - Unnotched	ASTM D256	0.26 ft-lb/in	14 J/m
Auto ignition Point		770°F	410°C

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-200 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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