

POWDER PROPERTIES	TEST METHOD	ALM D5 '8, \$!GH
Bulk Density	ASTM D1895	0.15 grams/CC
Average Particle Size (D50)	Laser Diffraction	95 microns
Particle Size Range (D10-D90)	Laser Diffraction	45-151 microns
Specific Gravity	ASTM D792	1.07 grams/CC

THERMAL PROPERTIES	TEST METHOD	ALM D5 '8, \$!GH
Melting Point	ASTM D3418	186 Deg C
Melt Flow Rate (3min, 1.0kg, 235C)	ASTM D1238	9 +/- 3 grams/10min

MECHANICAL PROPERTIES	TEST METHOD	ALM D5 '8, \$!GH
Ultimate Tensile Strength (XY)	ASTM D638	46 MPa / 6,700 psi
Ultimate Tensile Strength (Z)	ASTM D638	39 MPa / 5,700 psi
Tensile Strength, Yield (XY)	ASTM D638	26 MPa / 3800 psi
Tensile Strength, Yield (Z)	ASTM D638	21 MPa / 3000 psi
Flexural Modulus	ASTM D790	1,345 MPa / 195 kpsi
Elongation at Break (XY)	ASTM D638	38%
Elongation at Break (Z)	ASTM D638	21%

Actual part properties may vary slightly from those listed above based on processing parameters, operating conditions, and material usage. The above properties were based on virgin ALM ÚŒÄÖÌ €ËÜV nominal operating parameters on a 2500+ platform. Advanced Laser Materials, LLC makes no warranties of materials for any particular application, nor does it make a warranty of any type, expressed or implied, including, but not limited to, the warranties of merchantability for a particular purpose.

