

PA 650

Nylon 12 Laser Sintering Material

Technical Data Sheet

MATERIAL PROPERTIES	TEST	PA 650
Density, Bulk	ASTM D 1895	0.46 g/cc
Particle Size		
d50	Laser Diffraction	68 um
Specific Gravity	ASTM D 192	1.02 g/cc
THERMAL PROPERTIES	TEST	PA 650
Melting Point	ASTM D 3418	181 C
Melt Flow Rate (180 sec., 5.0kg, 235 C)	ASTM D 1238	40 + 4 g/10 min
TYPICAL PART PROPERTIES	TEST	PA 650
Tensile Strength, Ultimate		
XY Orientation	ASTM D 638	48 MPa / 6,962 psi
Tensile Modulus		
	ASTM D 638	1,700 MPa / 247 kpsi
Flexural Modulus		
	ASTM D 790	1,500 MPa / 217 kpsi
Modulus of Elasticity		
Elongation at Break		
XY Orientation	ASTM D 1895	24%
IZOD Impact Strength		
Unnotched	ASTM D 256	4.4 kJ/m ²

Warranty/Disclaimer: Actual part properties may vary significantly from those listed above based on processing parameters, operating conditions, and material usage. 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.



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