

# PA 625-MF

Mineral Filled Nylon 12 Laser Sintering Material

## Technical Data Sheet

MATERIAL PROPERTIES	TEST	PA 625-MF
Density, Bulk	ASTM D 1895	0.46 g/cc
Particle Size Distribution		
d90	Laser Diffraction	34.65 µm
d50	Laser Diffraction	54.97 µm
d10	Laser Diffraction	86.23 µm
Specific Gravity	ASTM D 792	1.20 g/cc
THERMAL PROPERTIES	TEST	PA 625-MF
Melting Point	ASTM D 3418	184°C
Melt Flow Rate (180 sec., 5.0kg, 235°C)	ASTM D 1238	40 +/- 4 g /10 min
Heat Deflection Temp.	ASTM D 648	177 +/- 2°C
TYPICAL PART PROPERTIES	TEST	PA 625-MF
Tensile Strength, Ultimate		
XY Orientation	ASTM D 638	52 MPa / 7,600 psi
Tensile Modulus	ASTM D 638	5,500 MPa /795 kpsi
Flexural Modulus	ASTM D 790	4,500 MPa/653 kpsi
Elongation at Break	ASTM D 638	4%
Volume Resistivity		
(50% RH, 22°C, 500V)	ASTM D 257-93	6.5-6.8 x 10 <sup>15</sup> Ohm/cm

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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