

# Nylon 12 PA

Ideal for low-volume plastic additive production, finely detailed parts, and functional models. Also perfect for parts that require FDA approval.

MATERIAL PROPERTIES	TEST	PA 650
Bulk Density	ASTM D 1895	0.46 g/CC
Particle Size (d50)	Laser Diffraction	68um
Specific Gravity	ASTM D 192	1.02 g/CC

THERMAL PROPERTIES	TEST	PA 650
Melting Point	ASTM D 3418	181°C
Melt Flow Rate(180sec, 5.0kg, 235C)	ASTM D 1238	40 + 4 g/10 min

TYPICAL PART PROPERTIES	TEST	PA 650
Tensile Strength, Ultimate (XY)	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
Elongation at Break (XY)	ASTM D 1895	24%
IZOD Impact Strength (Unnotched)	ASTM D 256	4.4 kJ/m <sup>2</sup>

Actual part properties may vary slightly from those listed above based on processing parameters, operating conditions, and material usage. Forecast3D 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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