



Nylon 12 PA

LASER SINTERING MATERIAL SPECIFICATIONS

Highlights

- Excellent surface resolution/feature details
- Good chemical resistance
- Low moisture absorption
- Produce durable production parts without tooling

Applications

- Housings and enclosures
- Impellers, connectors, complex ductwork and snap-fit designs
- Low volume end-use parts
- Complex production plastic parts

TYPICAL PHYSICAL PROPERTIES

MECHANICAL PROPERTIES	TEST METHOD	ENGLISH		METRIC	
		XY AXIS	ZX AXIS	XY AXIS	ZX AXIS
Color/Appearance	Visual	White		White	
Density	DIN 53466	0.034 lb/in ³		0.95 g/cm ³	
Elongation at Break	ASTM D638	15%	4%	15%	4%
Flexural Strength	ASTM D790	6,850 psi	—	47 MPa	—
Flexural Modulus	ASTM D790	188,549 psi	—	1,300 MPa	—
Heat Deflection Temp @66 psi	ASTM D648	350°F	—	177°C	—
Heat Deflection Temp @264 psi	ASTM D648	187°F	—	86°C	—
Tensile Modulus	ASTM D638	246,500 psi	—	1,700 MPa	—
Tensile Strength	ASTM D638	6,815 psi	—	46 MPa	—
Izod Impact Strength (notched)	ASTM D256	0.8 ft-lb/in		43 J/m	
Surface Finish	Up-facing surfaces	350 microinches		9 μm RA	
Volume Resistivity (22°C, 50%RH, 500V)	ASTM D257-93	—		3.1 x 10 ¹⁴ ohm x cm	

The information presented represents typical values intended for reference and comparison purposes only. It should not be used for design specifications or quality control purposes. End-use material performance can be impacted (+/-) by, but not limited to, part design, end-use conditions, test conditions, color etc. Actual values will vary with build conditions. Product specifications are subject to change without notice.

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XZ = X or "on edge"
 XY = Y or "flat"
 ZX = or "upright"

