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# Nylon 12 PA

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## LS 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, and complex ductwork
- Snap-fit designs
- Low volume end-use parts
- Complex production or prototype plastic parts

## TYPICAL PHYSICAL PROPERTIES

Color/Appearance	Visual	White	White
Density	DIN 53466	0.034 lb/in <sup>3</sup>	0.95 g/cm <sup>3</sup>
Elongation at Break	ASTM D638	4 - 15%	4 - 15%
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
Izod Impact Strength (notched)	ASTM D256	4.12 ft-lb/in	220 J/m
Izod Impact Strength (unnotched)	ASTM D256	8.24 ft-lb/in	440 J/m
Tensile Modulus	ASTM D638	246,500 psi	1,700 MPa
Tensile Strength	ASTM D638	6,815 psi	46 MPa
Surface Finish	Up-facing surfaces	350 microinches	9 µm RA
Volume Resistivity (22°C, 50%RH, 500V)	ASTM D257-93	—	3.1 x 10 <sup>14</sup> ohm x cm

The material properties provided herein are for reference purposes only. Actual values may vary significantly as they are dramatically affected by part geometry and process parameters. Material specifications are subject to change without notice.