

ALM PA 650 Nylon 12 SLS Prototyping Polymer

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Combines strength, durability (high impact) and chemical resistance and produces strong, durable, end use prototype parts. SL parts are less porous, more precise and have less noticeable build lines than FDM (Fused Deposition Modeling) parts. LS systems build in 0.004-0.006 inch layers. Information provided by Axis Prototypes.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ALM-PA-650-Nylon-12-SLS-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Bulk Density	0.460 g/cc	0.0166 lb/in ³	ASTM D1895
Density	1.02 g/cc	0.0368 lb/in ³	Sintered Part; ASTM D792
Particle Size	55 µm	55 µm	Average D50; Laser Diffraction
	30 - 100 µm	30 - 100 µm	Range (D10 to D90); Laser Diffraction
Melt Flow	50 g/10 min	50 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 235 °C	@Load 11.0 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	XY direction; ASTM D638
Elongation at Break	24 %	24 %	XY direction; ASTM D638
Tensile Modulus	1.70 GPa	247 ksi	XY direction; ASTM D638
Flexural Modulus	1.50 GPa	218 ksi	XY direction; ASTM D790
Izod Impact, Notched	2.20 J/cm	4.12 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.40 J/cm	8.24 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	181 °C	358 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	177 °C	351 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	ASTM D648

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	3.10e+14 ohm-cm Metric	3.10e+14 ohm-cm English	50% RH; 500V; ASTM D257 Comments
Surface Resistance	3.00e+14 ohm	3.00e+14 ohm	50% RH; 500V; ASTM D257
Dielectric Constant	2.9	2.9	50% RH; 500V; ASTM D150

Descriptive Properties	Value	Comments
Color	White	

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