

ALM PA 860 White Nylon 11 SLS Prototyping Polymer

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , Nylon , Nylon 11

Material Notes:

Unfilled White PA 11 that is formulated for easy processing across all LS platforms. Tightly controlled particle distribution creates a smooth surface finish and excellent feature detail. Parts produced from PA 860 exhibit outstanding mechanical properties without the need to double scan. This material also exhibits very little out gassing, which decreases the potential for "fogging" on the laser window and IR sensors. Information provided by Advanced Laser Materials (ALM).

Order this product through the following link:

http://www.lookpolymers.com/polymer_ALM-PA-860-White-Nylon-11-SLS-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Bulk Density	0.620 g/cc	0.0224 lb/in ³	ASTM D1895
Density	1.03 g/cc	0.0372 lb/in ³	Sintered Part; ASTM D792
Particle Size	46 µm	46 µm	Average D50; Laser Diffraction
	38 - 78 µm	38 - 78 µm	Range (D10 to D90); Laser Diffraction
Melt Flow	26 g/10 min	26 g/10 min	3 min.; ASTM D1238
	@Load 5.00 kg, Temperature 235 °C	@Load 11.0 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	77	77	
Tensile Strength at Break	48.0 MPa	6960 psi	XY direction; ASTM D638
Tensile Strength, Ultimate	42.0 MPa	6090 psi	Z direction; ASTM D638
Elongation at Break	14 %	14 %	Z direction; ASTM D638
	51 %	51 %	XY direction; ASTM D638
Tensile Modulus	1.427 GPa	207.0 ksi	Z direction; ASTM D638
	1.475 GPa	213.9 ksi	XY direction; ASTM D638
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C	66.7 µin/in-°F	ASTM E831
	@Temperature 0.000 - 50.0 °C	@Temperature 32.0 - 122 °F	

Thermal Properties	342 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	190 $\mu\text{m}/\text{in}\cdot^\circ\text{F}$ English	Comments ASTM E831
	@Temperature 85.0 - 145 °C	@Temperature 185 - 293 °F	
Melting Point	201 °C	394 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	184 °C	363 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	44.0 °C	111 °F	ASTM D648

Descriptive Properties	Value	Comments
Color	White	

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