

ALM PA-840-GSL Filled Nylon 12 Prototyping Polymer

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

Material Notes:

Engineered for excellent mechanical properties, part definition and surface finish. Stabilized against thermal degradation resulting in little or no scrap material, with typical virgin refresh rates from 15 to 25%. Good temperature control is required to process this material. Information provided by Advanced Laser Materials (ALM).

Order this product through the following link:

http://www.lookpolymers.com/polymer_ALM-PA-840-GSL-Filled-Nylon-12-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Bulk Density	0.420 g/cc	0.0152 lb/in ³	ASTM D1895
Density	0.870 g/cc	0.0314 lb/in ³	Sintered; ASTM D792
Particle Size	50 µm	50 µm	D50
	38 - 78 µm	38 - 78 µm	D10-D90
Melt Flow	13 g/10 min	13 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
Tensile Strength, Ultimate	37.0 MPa	5370 psi	Z; ASTM D638
	48.0 MPa	6960 psi	XY; ASTM D638
Elongation at Break	3.0 %	3.0 %	Z; ASTM D638
	4.0 %	4.0 %	XY; ASTM D638
Tensile Modulus	2.137 GPa	309.9 ksi	Z; ASTM D638
	3.378 GPa	489.9 ksi	XY; ASTM D638

Thermal Properties	Metric	English	Comments
Melting Point	200 °C	392 °F	ASTM D3418

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