

ALM PA-640-GSL Filled Nylon 12 Prototyping Polymer

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

Material Notes:

This carbon fiber/glass sphere filled composite is an easy to process, extremely light weight filled PA 12 material. Improved dimensional stability, recyclability, and increased stiffness. Good Z direction properties and an excellent choice for applications requiring reduced weight and higher temperatures. Information provided by Advanced Laser Materials (ALM).

Order this product through the following link:

http://www.lookpolymers.com/polymer_ALM-PA-640-GSL-Filled-Nylon-12-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Bulk Density	0.370 g/cc	0.0134 lb/in ³	ASTM D1895
Density	0.820 g/cc	0.0296 lb/in ³	Sintered; ASTM D792
Particle Size	55 µm	55 µm	D50
	35 - 100 µm	35 - 100 µm	D10-D90
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
Tensile Strength, Ultimate	33.0 MPa	4790 psi	Z; ASTM D638
	49.0 MPa	7110 psi	XY; ASTM D638
Elongation at Break	3.0 %	3.0 %	XY; ASTM D638
	3.0 %	3.0 %	Z; ASTM D638
Tensile Modulus	1.945 GPa	282.1 ksi	Z; ASTM D638
	3.816 GPa	553.5 ksi	XY; ASTM D638
Flexural Modulus	4.313 GPa	625.5 ksi	Z; ASTM D790
	5.04 GPa	731 ksi	XY; ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	184 °C	363 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	180 °C	356 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	760000 ohm-cm	760000 ohm-cm	ASTM D257
Surface Resistance	40000 ohm	40000 ohm	

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