

ALM PA-615-GS Filled Nylon 12 Prototyping Polymer

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

Material Notes:

50% glass sphere filled material for improved dimensional stability, increased stiffness, and higher temperature applications when compared to unfilled PA. Drop-in replacement for other commercially available 50% glass sphere filled PA 12 laser sintering powders. PA 615 is more recyclable, produces a better part surface finish, and the dry powder flow has been optimized. Information provided by Advanced Laser Materials (ALM).

Order this product through the following link:

http://www.lookpolymers.com/polymer_ALM-PA-615-GS-Filled-Nylon-12-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Bulk Density	0.670 g/cc	0.0242 lb/in ³	ASTM D1895
Density	1.49 g/cc	0.0538 lb/in ³	Sintered; ASTM D792
Particle Size	50 µm	50 µm	D50
	35 - 100 µm	35 - 100 µm	D10-D90
Melt Flow	50 g/10 min	50 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	31.0 MPa	4500 psi	XY; ASTM D638
Elongation at Break	1.6 %	1.6 %	XY; ASTM D638
Tensile Modulus	1.40 GPa	203 ksi	XY; ASTM D638
Flexural Modulus	3.10 GPa	450 ksi	XY; ASTM D790
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.01 J/cm	1.89 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	186 °C	367 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	179 °C	354 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	134 °C	273 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	50% RH, 500V; ASTM D257
Surface Resistance	2.30e+14 ohm	2.30e+14 ohm	50% RH, 500V; ASTM D257
Dielectric Constant	3.7	3.7	ASTM D150

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