



Features & Benefits

- Glass Filled Polyamide Nylon
- Excellent Mechanical Stiffness
- Dimensionally Stable
- Elevated Temperature Resistance
- Ideal For:
 - Functional Testing
 - Fit Check Models
 - Medical Devices
 - Presentation Models

Additional Information

- Available for Instant Online Quoting
- Maximum Build: 15x13x18in
- Tolerances: +/- .003" for the first 3 inches, +/- .001" for each additional inch
- Minimum Wall Thickness: .035"
- Finish Options Include:
 - Natural
 - Liquid Proof
 - Sealed
 - Mold / Paint Ready
 - Color Paint

SLS® 415-GF Glass Reinforced Polyamide

Material Properties

	TEST	RM ² 415-GF
Density, Bulk	ASTM D1895	0.68 g/cc
Particle Size		
	d90	Laser Diffraction 66 µm
	d50	Laser Diffraction 47 µm
	d10	Laser Diffraction 35 µm

Thermal Properties

	TEST	RM ² 415-GF
Melting Point	ASTM D3418	181°C
Melt Flow Rate (180 sec., 2.16 kg, 235°C)	ASTM D1238	17 ± 3 g/10 min

Typical Part Properties

	TEST	RM ² 415-GF
Tensile Strength, Ultimate		
	XY Orientation ASTM D638	40 MPa / 5800 psi
	Z Orientation ASTM D638	30 MPa / 4400 psi
Tensile Modulus		2,700 MPa / 390 ksi
Elongation at Break	ASTM D638	
	XY Orientation ASTM D638	3.5%
	Z Orientation ASTM D648	2%
Heat Deflection Temperature (1.82 MPa)	ASTM D792	106°C
Sintered Part Density		1.35 g/cc

Surface Finish

	TEST	RM ² 415-GF
Unfinished Part	ISO 4287	6.1 µm

Electrical Properties

	TEST	RM ² 415-GF
Volume Resistivity (50% RH, 22°C, 500V)	ASTM D257-93	2.0 Ex 10 ₁₄ Ohm/cm