

PA 840-GSL

A newly developed, engineered light weight Nylon 12. This material has superior strength to weight properties and is ideal for light weight applications requiring a combination of strength and aesthetics.

POWDER PROPERTIES	TEST METHOD	PA 840-GSL
Bulk Density	ASTM D1895	0.42 grams/CC
Average Particle Size (D50)	Laser Diffraction	50 microns
Particle Size Range (D10-D90)	Laser Diffraction	38-78 microns
Specific Gravity	ASTM D792	0.87 grams/CC

THERMAL PROPERTIES	TEST METHOD	PA-840-GSL
Melting Point	ASTM D3418	200°C
Melt Flow Rate (3min, 5.0kg, 235C)	ASTM D1238	13.22 grams/10 min

MECHANICAL PROPERTIES	TEST METHOD	PA-840-GSL
Ultimate Tensile Strength (XY)	ASTM D638	49 MPa / 7,100 psi
Tensile Modulus (XY)	ASTM D638	3,447 MPa / 500 kpsi
Elongation at Break (XY)	ASTM D638	5.3%

Actual part properties may vary slightly from those listed above based on processing parameters, operating conditions, and material usage. Forecast3D makes no warranties of materials for any particular application, nor does it make a warranty of any type, expressed or implied, including, but not limited to, the warranties of merchantability for a particular purpose.

Forecast3D is a world class Rapid Manufacturing facility located in Carlsbad CA specializing in high-quality rapid prototyping, 3D printing (SLA, SLS, FDM, Objet, and DMLS), short-run manufacturing and CNC machining, and is well known for its unique ProCAST RTV & Hybrid Tooling capabilities.