

## FIBER FILLED

## HP 11-30

## HIGHLIGHTS

- Isotropic Properties
- Melt compounded Carbon Fiber filled PA11
- High stiffness, high tensile strength
- Electrostatically dissipative

## APPLICATIONS

- Under hood components
- Wind tunnel display models
- Well suited to applications which require superior thermal properties, with maximum performance and consistent properties in XY&Z dimensions

## TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	ENGLISH	METRIC
Color/Appearance	Visual	Black	Black
Bulk Density	ASTM D1895	0.0144 lbs/in <sup>3</sup>	> 0.45 g/cc
Elongation at Break	ASTM D638	8-9 %	8-9 %
Flexural Modulus	ASTM D790	TBD	TBD
Flexural Strength	ASTM D790	TBD	TBD
Tensile Modulus X	ASTM D638	478.6 kpsi	3.3 GPa
Tensile Modulus Y	ASTM D638	478.6 kpsi	3.3 GPa
Tensile Modulus Z	ASTM D638	377.1 kpsi	2.6 GPa
Tensile Strength X	ASTM D638	8,122 psi	56 MPa
Tensile Strength Y	ASTM D638	8,122 psi	56 MPa
Tensile Strength Z	ASTM D638	6,672 psi	46 MPa
Average Particle Size (D50)	Laser Diffraction	0.003 inches	80 microns
Particle Size Range (D10-D90)	Laser Diffraction	0.001 - 0.006 inches	30 - 140 microns

The material properties provided herein are for reference purposes only. Actual values may vary significantly as they are dramatically affected by part geometry and process parameters. Material specifications are subject to change without notice.



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## About RPS

RPS has been in operation over ten years and our engineers collectively have decades of experience working with stereolithography and laser sintering equipment. With proven experience in 3D printing, engineering, electronics, computer-aided engineering and more, we understand the technology and can offer advice on how it can suit your specific application.

We manufacture the **NEO800** stereolithography system, designed, developed and built by RPS engineers. We are also an HP Channel Partner of HP's Multi-Jet Fusion technology and offer a range of materials and software through our partnership with market-leading suppliers ALM, DSM Somos® and Materialise.

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