

## PA CARBON SLS

### FILAMENT PRODUCT SPECIFICATION

**Carbon powder filled plastic** has exceptional stiffness and strength properties allowing for parts to be **machined mechanically** and post processed to attain enhanced surface finishes. Typical applications include functional covers, brackets, cases for motorsport, aerospace, consumer electronics and sports equipment.

**3D Printed Carbon** material also has **conductive properties** and very good long term stability with low moisture absorption making it ideal for end use applications with **structural and weight saving requirements**.

	MECHANICAL PROPERTIES	Value
TENSILE	Tensile Strength Ultimate	85 Mpa
	Tensile Modulus	8300 Mpa
	Elongation	3.2%
	THERMAL PROPERTIES	Value
	Temperature Resistance	170°C
	OTHERS	Value
	Density	1.2g/cm <sup>3</sup>
	Static Dissipative	0.2W/mK
	Typical Accuracy (depending on design, geometry and build orientation.)	+/- 0.15mm

**Support and advice on:** Metal Alternative • Prototype • End Use Parts  
with the latest in **additive manufacturing technologies**


### PA CARBON SLS

providing excellent mechanical properties and highest stiffness, strength to weight ratio in SLS range

### PA GRAPHITE SLS

excellent for high level mechanical and electronic applications

INDUSTRIES	PA CARBON SLS	PA GRAPHITE SLS
AEROSPACE AND DEFENCE	●	●
AUTOMOTIVE	●	●
OIL AND GAS	●	
MANUFACTURING	●	●
ELECTRONICS		●
PLASTICS		●
MOTORSPORT	●	●

 **CONTACT US NOW** to discuss your requirements and to get full data sheets on these and other filament materials

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Product specifications are subject to change without notice. The information presented are typical values intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values will vary with build conditions. Performance characteristics may vary according to application or operating conditions. Users are responsible for ensuring the material is technically suitable, safe and lawful for the intended application and for disposal/recycling consistent with applicable environmental laws and regulations.