

OCEANZ PA11 CF

Datasheet for carbon filled PA11 parts produced by Selective Laser Sintering

Oceanz PA11 CF is a carbon filled polyamide material for high performance applications. Parts made of this material show a high tensile strength, elasticity and high impact resistance. Typical applications are in environments where high strengths and stiffnesses are required (e.g. motorsports) and/or exposure to special surroundings (e.g. chemical, detergents, oil) may occur. It enables lightweight designs through its high strength-to-weight ratio. The material is suitable for production of functional parts and i.e. manufacturing tools and fixtures.



Oceanz PA11 CF has a natural anthracite black color. There are no post-processing options available for this material.

Part properties	Value	Unit
Part colour	Anthracite black	-
Part density	1.07	g/cm ³
Minimum wall thickness	1.5	mm
Layer thickness	0.1	mm
Max. product size	192 x 240 x 315	mm
Tensile modulus XY / Z	4550 / 1700	MPa
Tensile strength XY / Z	70 / 40	MPa
Strain at break XY / Z	11 / 5	%
Hardness	78	Shore D
Specific surface resistivity XY / Z	$7.9 \cdot 10^2 / 1.5 \cdot 10^3$	Ω
Specific volume resistivity XY / Z	$5.5 \cdot 10^1 / 1.4 \cdot 10^2$	Ωcm
Melting temperature	202	$^{\circ}\text{C}$

Please note that all mentioned mechanical properties are optimum values according to manufacturer. Due to the layer by layer production process and the specific design of each individual product values may differ. ***If specific properties and/or dimensions are critical, always contact us so we can inform you how to obtain required specifications!***

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