

OCEANZ ESD

Datasheet for parts with ESD behavior produced by Selective Laser Sintering



Oceanz ESD is a polyamide 11 material with a special filler to obtain electrostatic discharge behavior of the printed part. Parts produced with this material show a reduced surface and volume resistivity compared to non-functionalized polyamide parts. Typical applications are where electrostatic discharge matters, i.e. in the electronics industry. The material is suitable for production of functional parts and i.e. manufacturing tools and fixtures.

Oceanz ESD comes in natural dark grey color. There are no post-processing options available for this material.

Part properties	Value	Unit
Part color	Dark grey	-
Part density	1.00	g/cm ³
Minimum wall thickness	2.0	mm
Layer thickness	0.1	mm
Max. product size	192 x 240 x 315	mm
Tensile modulus XY / Z	2300 / 1500	MPa
Tensile strength XY / Z	50 / 45	MPa
Strain at break XY / Z	20 / 20	%
Specific volume resistivity XY / Z	$2.3 \cdot 10^6$ / $2.1 \cdot 10^5$	Ω cm
Specific surface resistivity XY / Z	$1.3 \cdot 10^4$ / $3.4 \cdot 10^4$	Ω
Melting temperature	204	°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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