

## OCEANZ PAGF GREY

### Datasheet for glass filled polyamide parts produced by Selective Laser Sintering

Oceanz PAGF GREY is a glass-filled polyamide 12 powder, which is characterized by an excellent stiffness in combination with wear-resistance. As the grey colour is throughout, scratches or any postprocessing do not degrade the appearance. The parts are also less susceptible to soiling, as soiling is less conspicuous against the grey background. Laser sintered parts made from Oceanz PAGF GREY possess excellent material properties:



- High stiffness and mechanical wear-resistance
- Good thermal loading and long term constant behaviour
- High dimensional accuracy and detail resolution

Oceanz PAGF GREY is processed on our ISO9001 environment and can be coloured, polished and vapor polished. After vapor polish, the material has a dark grey / anthracite appearance.

Part properties	Value	Unit
<b>Part colour</b>	Grey	-
<b>Part density</b>	1.22	g/cm <sup>3</sup>
<b>Minimum wall thickness</b>	1.5	mm
<b>Layer thickness</b>	0.1 – 0.12	mm
<b>Max. product size</b>	335 x 335 x 603	mm
<b>Tensile modulus XY</b>	3200	MPa
<b>Tensile modulus Z</b>	2500	MPa
<b>Tensile strength XY</b>	48	MPa
<b>Tensile strength Z</b>	42	MPa
<b>Strain at break XY</b>	9	%
<b>Strain at break Z</b>	5.5	%
<b>Shore hardness</b>	80	Shore D
<b>Melting temperature</b>	185 - 188	°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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