

PAGF GREY

Datasheet for glass filled polyamide parts produced by Selective Laser Sintering

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 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

Part properties	Value	Unit	Test standard
Part colour	Grey	-	
Part density	1.22	g/cm ³	
Minimum wall thickness	1.0	mm	
Layer thickness	0.1 – 0.12	mm	
Max. product size	335 x 335 x 603	mm	
Tensile modulus XY	3200	MPa	ISO 527-1/-2
Tensile modulus Z	2500	MPa	ISO 527-1/-2
Tensile strength XY	48	MPa	ISO 527-1/-2
Tensile strength Z	42	MPa	ISO 527-1/-2
Strain at break XY	9	%	ISO 527-1/-2
Strain at break Z	5.5	%	ISO 527-1/-2
Shore hardness	80	Shore D	ISO 868
Melting temperature	185 - 188	°C	ISO 11357-1/-3

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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