

SINTRATEC PA12 GF

Material Data Sheet

Industrial-grade polyamide powder
for parts with an exceptionally high
stiffness and great impact strength



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GENERAL PROPERTIES

	Test Standard	Value
Sintered Part Density [g/cm ³]	ISO 1183	1.2
Bulk Density [g/cm ³]	ISO 60	0.48
Powder Color		Dark Gray
Refresh Ratio		40%

MECHANICAL PROPERTIES

	Test Standard	Value (X/Y)	Value (Z)
Tensile Modulus [MPa]	ISO 527-2	2708	2620
Tensile Strength [MPa]		46	38
Elongation at Break [%]		4	3
Flexural Strength [MPa]	ISO 178	66	58
Flexural Modulus [MPa]	ISO 178	2174	2071
Shore D Hardness	ISO 868	79	

THERMAL PROPERTIES

	Test Standard	Value
Melting Temperature [°C]	ISO 11357-1	186

Last updated: 04/2022 | Disclaimer: The given values were obtained by independent testing of parts printed on a Sintratec S2 Fusion Module. Results may vary according to factors such as part geometry, part orientation, used system and printing parameters. Sintratec does not make guarantees on material properties. This data sheet represents the current state of development of the Sintratec products and loses its validity once a new version is published. Misprints, changes and errors are reserved. Pictures and listed specifications may vary from the final products.