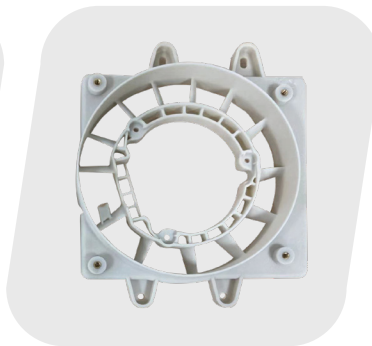


TECHNICAL DATA

KSPA12GB

Product Demonstration



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Kings
3D Printing

Material Overview

KSPA12GB is a composite nylon powder containing 30% glass beads. The printed parts feature high stiffness, excellent temperature and corrosion resistance, with a powder reuse rate of up to 100%. Available in gray and black, the black version delivers an exceptionally smooth and refined surface finish, offering a premium appearance without post-processing.

Advantages

- Printed parts have high stiffness and high temperature resistance
- High reuse rate, close to 100%

Ideal Application

- Functional structures
- Concept prototypes
- Automotive, aerospace, architecture, electronic applications

Technical Datasheet

Performance	Testing methods	Typical values
Powder color	Visual inspection	Natural / Gray

Mechanical property	Value	Unite	Test standard
Tensile Modulus	3000	Mpa	ISO 527
Tensile Strength	46	Mpa	ISO 527
Strain at break	9	%	ISO 527
Charpy impact strength	36	KJ/m ²	ISO 179
Charpy notched impact strength	6	KJ/m ²	ISO 179
Flexural modulus	2800	Mpa	ISO 178
Flexural Strength	70	Mpa	ISO 178

Other properties	Value	Unite	Test standard
Powder Melting temperature(10°C/min)	187	°C	ISO 11357
Vicat softening temperature(50°C/h50N)	150	°C	ISO 306
Density (lasersintered)	1.2	g/cm ³	Own method
Density(Powder)	0.72	g/cm ³	Own method
Particle Size (D50)	50	µm	Laser Diffraction

The above data are based on our current knowledge and experience, the values of which may vary and depend on individual machine processing and post-curing practices. The safety data given in above is for information purposes only and does not constitute a legally binding MSDS. The relevant MSDS can be obtained upon request from your supplier or you may contact Kings 3D directly at "info@kings3dprinter.com"