

100% utilization
KSPA12GB
— Kings team



Additive Material



Material Overview

KSPA12GB is a composite nylon powder enriched with 40% glass beads, delivering 3D printed parts known for their exceptional stiffness and high-temperature resistance. Moreover, the powder boasts an impressive reusability rate of up to 100%.

Advantage

- ※ Blue-gray coloration
- ※ Remarkably high reuse rate, approaching 100%
- ※ 3D printed parts exhibit superior stiffness and high-temperature resistance

Ideal Application

- ※ Functional structures
- ※ Concept prototypes
- ※ Automotive, aerospace, architectural, and electronic applications

Technical Datasheet

Mechanical Properties	Value	Unit	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	Unit	Test Standard
Powder Melting temperature (10°C/min)	187	°C	ISO 11357
Vicat softening temperature (50°C/h50N)	150	°C	ISO 306
Density (Laser Sintered)	1.2	g/cm ³	Own method
Density (Powder)	0.72	g/cm ³	Own method
Particle Size (D50)	50	µm	Laser Diffraction

These values may vary and depend on individual machine processing and post-curing practices.

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