

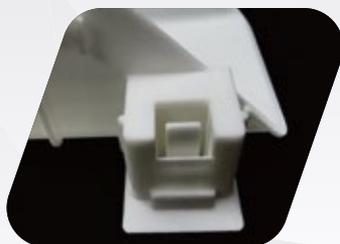
100% utilization

KSPA12

— Kings team



Additive Material



Material Overview

KSPA12 is a white nylon powder characterized by a D50 particle size of approximately 50 microns and a precise, uniform distribution. With high sphericity and exceptional fluidity, this powder incorporates the self-developed synthesis technology by the Kings team, effectively minimizing costs while preserving excellent surface quality and mechanical properties. Notably, it boasts a high reusability rate, approaching near 100% utilization.

Advantage

- ※ Exceptional color stability with repeated use.
- ※ Powder particle size (D50) is around 50 microns, with a narrow and uniform distribution, displaying high sphericity and remarkable fluidity.
- ※ Maintains excellent mechanical properties and achieves a flawless surface finish even at close to 100% powder reuse rate.

Ideal Application

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

Technical Datasheet

Mechanical Properties	Value	Unit	Test Standard
Tensile Modulus	1600	Mpa	ISO 527
Tensile Strength	46	Mpa	ISO 527
Strain at break	20	%	ISO 527
Charpy impact strength	38	KJ/m ²	ISO 179
Charpy notched impact strength	7.5	KJ/m ²	ISO 179
Flexural modulus	1400	Mpa	ISO 178
Flexural Strength	50	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)	100	°C	ISO 306
Density (Laser Sintered)	0.94	g/cm ³	Own method
Density (Powder)	0.52	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.

Email: info@additivematerial.com

Add: Building B, No. 1895 Xinkai Road, Zhongdai Street, Pinghu City, Jiaxing City, Zhejiang Province

Visit us online at www.additivematerial.com

Zhejiang Additive Material Co. Ltd