iSANMATE®

Professional 3D Filament Manufacturer

PLA CF Filament Technical Data Sheet

Product Description: PLA carbon fiber raw material is obtained by adding carbon fiber powder on the basis of PLA raw material for blending modification. It is mainly used in the field of 3D printing.

Typical Application: 3D printing

Properties: PLA carbon fiber raw materials have good rigidity and heat resistance, as follows:

1.High carbon fiber content, the proportion is about 15%

2.High rigidity;

3.Excellent heat resistance and short processing cycle;

4.Excellent hydrolysis resistance and product stability;

5.Good machinability;

6.High molecular weight, recyclability.

Performance	Unit	Standard Test	Typical Value
Density	g/cm^3	ASTM D-792	1.21
Melt Index（170℃, 2160g）	g/10min	ASTM D-1238	8
Melting Point	℃	DSC	170--190
Vicat Softening Point A/120	℃	ASTM D-648	65
Tensile Strength	MPa	ASTM D-638	58
Elongation At Break	%	ASTM D-638	3
Flexural Modulus	Kj/m2	ASTM D-256	6.5
Notched Impact Strength	%	ASTM D-955	0.3-0.5
Water Absorption	%	ASTM D-570	<1

* The above data are typical values and should not be interpreted as technical indicators for judging quality.