PLA Carbon Fiber Fill

Polylactide

Product description:

The PLA carbon fiber raw materials are used to blend the carbon fiber powder on the basis of the PLA raw materials, mainly in the field of 3D printing.

Performance:

The PLA carbon fiber raw

3D printing.Carbon fiber content is high, about 15%.

High rigidity.

Excellent heat resistance and short working cycle.

Excellent hydrolysis resistance and product stability.

High molecular weight, recyclability.

% by w	Content
> 84 %	Polylactide Polymers
~ 15 %	Carbon Fiber
<1%	Additives

Physical	Test Method	Nominal Value (SI)
Specific Gravity	ASTM D-792	1.21 $\frac{g}{cc}$
Melting Point	DSC	170-190 °C
Melt Mass-Flow Rate (MFR) (170^{o}C/2.16 kg)	ASTM D-1238	8 g/10 min
Water Absorption	ASTM D-570	<1%
Mechanical		
Tensile Strength	ASTM D-638	58.0 MPa

Tensile Elongation	ASTM D-638	3.0 %
Flexural Modulus	ASTM D-256	6.5 MPa kJ/m2
Impact		
Notched Impact Strength	ASTM D-955	0.3-0.5 %