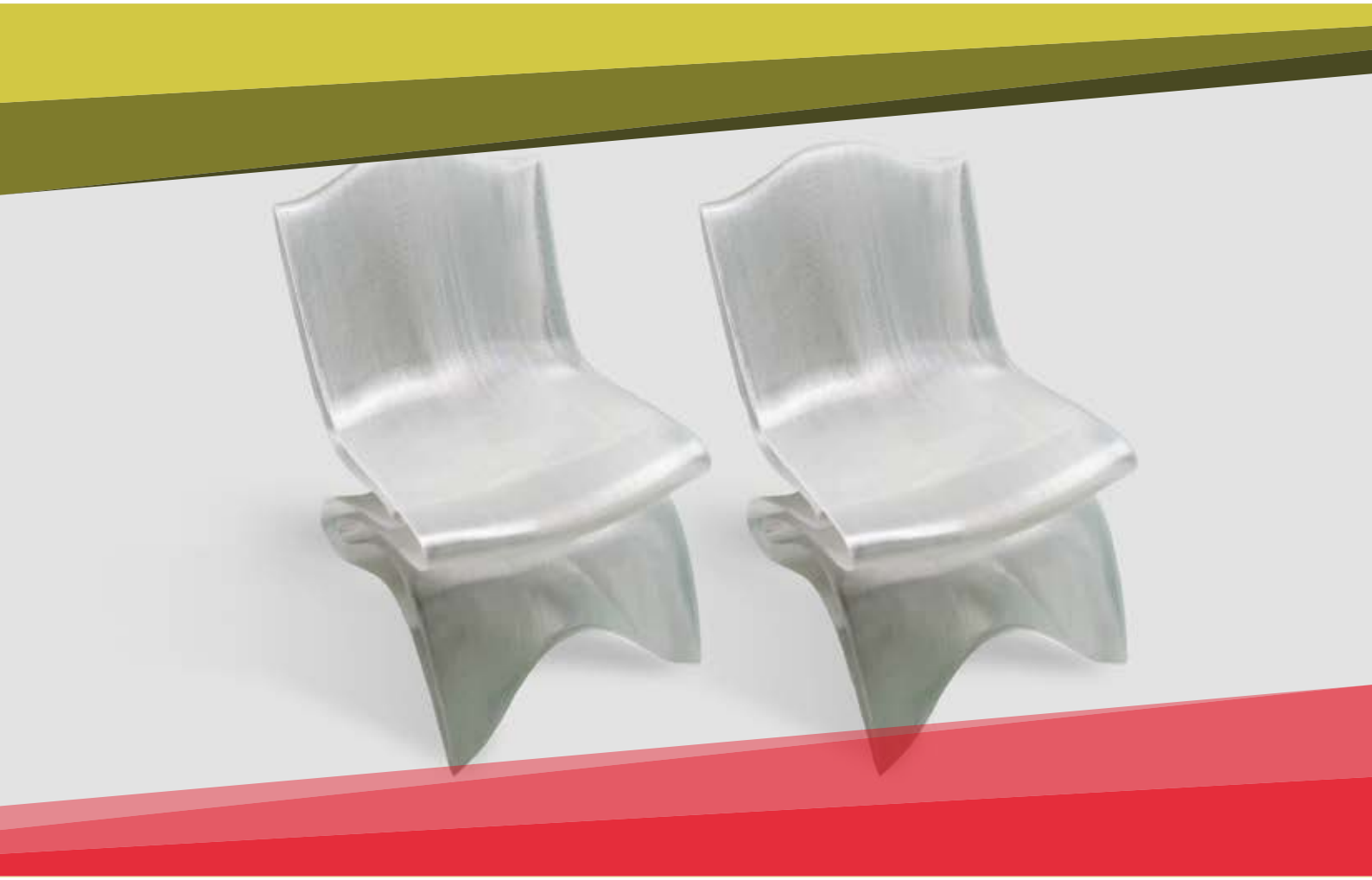
TECHNICAL DATA

P716-PLA

Product Demonstration



Material Overview

PLA granule is a new bio-based and biodegradable material, which is made of starch from plant resources (such as corn). It has good biodegradability and is recognized as an environmentally friendly material. Suitable for indoor decorative furniture and other scenes.

The good discharging state is: no bubbles, glossy， Particle diameter: about 3 mm.
Applicable models: FGF-800,FGF-1800,FGF-AM-2420,FGF-HM-2435

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Product Information

Manufacturer:
Guangdong Kings intelligent manufacturing co., ltd.

Other certificates:
REACH

Material identification:
>PLA<

Color:
inherent/true qualities

Material shape:
granulate

Processing method:
3D printing

Flame retardant rating:
HB

Up to specification:
● UL

Material characteristics:
● High gloss ● High rigidity ● Medium impact ● General grade

Material use:
● General ● Sculpture ● Toys ● Decorations ● Hand-made

Technical Datasheet

Physical Property	Testing Standards	Data	Unit
Melt index 220°C 10kg	ASTM D1238	197	g/10min
Melt index 220°C 10kg	ISO 1133	197	g/10min
Melt index 200°C 5kg	ASTM D1238	65	g/10min
Melt index 200°C 5kg	ISO 1133	65	g/10min

Hardness	Testing Standards	Data	Unit
Rockwell hardness r scale 23°C	ASTM D785	84	/
Rockwell hardness r scale 23°C	ISO 2039	84	/

Mechanical Character	Testing Standards	Data	Unit
Tensile Strength	ASTM D638	50.5	MPa
Young's Modulus	ASTM D638	4780	MPa
Elongation at at break	ASTM D638	9.6	%
Flexural Strength	ASTM D790	61	MPa
Flexural Modulus	ASTM D790	2234	MPa
IZOD Impact Notched	ASTM D256	48	J/m

Hot Property	Testing Standards	Data	Unit
Heat Deflection(HDT)	ASTM D648	54.5	°C
Glass Transition(Tg)	ASTM D7426	58.8	°C
Melting Point	ASTM D7426	162.6	°C
Decomposition Temp@5%	ASTM E2402	≥374	°C
Vicat Softening Tem	ASTM D1525	54	°C
Mold Shrinkag	ASTM D955	0.1-0.3	%

Others	Testing Standards	Data	Unit
Melt Flow Rate	ASTM D1238	10	g/10min
Density	ASTM D792	1.3	g/cm³
Volume Resistivity	ASTM D257	2.90E+15	ohm-cm
Dielectric Constan	ASTM D150	1.51	/
Flammability	UL94	HB	Class

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