TECHNICAL DATA

P155FR-ABS

Product Demonstration

Material Overview

ABS is a thermoplastic polymer material structure with high gloss and high rigidity and easy processing and molding. it has strong corrosion resistance to acidalkali and salt, and can also tolerate the dissolution of organic solvents to a certain extent. lt has excellent mechanical properties and dimensional stability and can be used to manufacture sculptures.

The good discharging state is: bubble-free and glossy particle diameter: about 3mm
Applicable model: FGF-800, FGF-1800, FGF-AM-2420, FGF-HM-2435

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Product Information

Manufacturer:
Guangdong Kings intelligent manufacturing co., ltd.

Material:
>ABS<

Color:
Original

Shape:
Granulate

Processing Way:
3D printing

Flame retardant:
V0

Character :
● High Gloss ● High Strength ● Moderate Impact

Purpose:
● General ● Sculpture

Technical Datasheet

Physical Property	Testing Standards	Data	Unit
Specific gravity 23°C	ASTM D792	1.17	g/cm³
Specific gravity 23°C	ISO 1183	1.17	g/cm³
Melt index 220°C 10kg	ASTM D1238	46	g/10min
Melt index 200°C 5kg	ASTM D1238	4.6	g/10min

Hardness	Testing Standards	Data	Unit
Rockwell hardness R scale 23°C	ASTM D785	105	/
Rockwell hardness R scale 23°C	ISO 2039	105	/

Mechanical Property	Testing Standards	Data	Unit
Tensile strength 23°C	ISO 527	45	MPa
Bending strength 23°C	IsO 178	66	MPa
Bending modulus 23°C	IsO 178	2260	MPa
The notch impact of cantilever beam 23°C 6.4mm	ASTM D256	25	kg-cm/cm
The notch impact of cantilever beam 23°C 6.4mm	ISO 180	220	J/m

Hot Property	Testing Standards	Data	Unit
Hot deformation temperature 1.8MPa 120°C/r 6.4mm	ASTM D648	76	°C
Hot deformation temperature 1.8MPa 120°C/r 6.4mm	ISO 75	76	°C
Hot deformation temperature 1.8MPa 120°C/r 6.4mm	ASTM D648	90	°C
Hot deformation temperature 1.8MPa 120°C/r 6.4mm	ISO 75	91	°C
Vicat softening temperature 50N	ASTM D1525	92	°C
Vicat softening temperature 50N	ISO 306	92	°C

Flame Retardancy	Testing Standards	Data	Unit
Fire rating 1.5mm	UL94	V1	/
Fire rating 2.0mm	UL94	V0	/
Fire rating 2.5mm	UL94	5VA	/

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