

# RENHONG® PBT/PET

Manufacturer	Guangdong Renhong New Materials Co., Ltd.
Material identification	PBT/PET alloy
Material shape	Granular
Processing method	Injection moulding
Flame retardant rating	HB
Main property	High gloss, high temperature resistance, flame retardancy, and reinforcement
Case application	Air fryer, connector, oil pipe, hair straightener

## 物理机械性能 Mechanical

Mechanical properties	Testing standard	Test condition	Data
Melt flow index	iso 1133	260°C/5kg	18.7 g/10min
Distortion temperature	ASTM D648	1.8Mpa	206 °C
Vicat softening point	ASTM D1525	50°C/h 50N	230°C
Fiber/Ash content			30 %
Density	iso 1183		1.55 g/cm <sup>3</sup>
Flexural strength	ASTM D790	1.3mm/min 50nmspan	182 Mpa
Flexural modulus	ASTM D790	1.3mm/min 50nmspan	8950Mpa
Tensile strength	ASTM D638	50mm/min type I	140Mpa
Elongation at break	ASTM D638	50mm/min type I	2.1 %
Rockwell hardness	ASTM D785	R	121°
Impact strength	ASTM D256	23°	93 J/m

Preliminary drying	Barrel temperaturee ( ° C )				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature ( ° C )
	Nozzle	Front	Middle	Back			
120 °C 4 hr	240	240	245	250	30-60	0.2-0.3	90

The above Injection molding data is for reference only. Appropriate adjustments should be made according to different machine models, molds, and product requirements.