

# RENHONG® PPO/PS

Manufacturer	Guangdong Renhong New Materials Co., Ltd.
Material identification	PPO/PS alloy
Material shape	Granular
Processing method	Injection moulding
Flame retardant rating	HB
Main property	Low warpage, hydrolysis resistance, halogen-free flame retardancy, and low creep
Case application	Chargers, consumer goods, medical devices, food tableware, photovoltaic products, and food storage containers

## 物理机械性能 Mechanical

Mechanical properties	Testing standard	Test condition	Data
Melt flow index	iso 1133	280°C/5kg	10 g/10min
Distortion temperature	ASTM D648	1.8Mpa	110 °C
Vicat softening point	ASTM D1525	50°C/h 50N	130°C
Fiber/Ash content			%
Density	iso 1183		1.1 g/cm <sup>3</sup>
Flexural strength	ASTM D790	1.3mm/min 50nmspan	89 Mpa
Flexural modulus	ASTM D790	1.3mm/min 50nmspan	2350Mpa
Tensile strength	ASTM D638	50mm/min type I	63Mpa
Elongation at break	ASTM D638	50mm/min type I	7 %
Rockwell hardness	ASTM D785	R	113°
Impact strength	ASTM D256	23°	140 J/m

Preliminary drying	Barrel temperature ( ° C )				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature ( ° C )
	Nozzle	Front	Middle	Back			
110°C 3-4 hr	260-290	260-290	245-270	240-260	20-100	0.3-0.7	70-100

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