

RENHONG® PPO/PPS

Manufacturer	Guangdong Renhong New Materials Co., Ltd.
Material identification	PPO/PPS alloy
Material shape	Granular
Processing method	Injection moulding
Flame retardant rating	HB
Main property	Heat resistance, high mechanical strength, good rigidity, low water absorption, halogen-free flame retardancy, heat resistance
Case application	Automotive industry, electronics and electrical appliances, industrial machinery, and household appliances

物理机械性能 Mechanical

Mechanical properties	Testing standard	Test condition	Data
Melt flow index	iso 1133	280°C/5kg	12 g/10min
Distortion temperature	ASTM D648	1.8Mpa	240 °C
Vicat softening point	ASTM D1525	50°C/h 50N	265 °C
Fiber/Ash content			40 %
Density	iso 1183		1.37 g/cm ³
Flexural strength	ASTM D790	1.3mm/min 50nmspan	192 Mpa
Flexural modulus	ASTM D790	1.3mm/min 50nmspan	11000Mpa
Tensile strength	ASTM D638	50mm/min type I	175Mpa
Elongation at break	ASTM D638	50mm/min type I	4 %
Rockwell hardness	ASTM D785	R	135°
Impact strength	ASTM D256	23°	95 J/m

Preliminary drying	Barrel temperature (° C)				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature (° C)
	Nozzle	Front	Middle	Back			
100 °C 3-4 hr	320-350	320-350	310-340	300-330	40-100	0.3-0.8	120-180

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