

RENHONG® PPO/PP

Manufacturer	Guangdong Renhong New Materials Co., Ltd.
Material identification	PPO/PP alloy
Material shape	Granular
Processing method	Injection moulding
Flame retardant rating	HB
Main property	Low density, electrical insulation, heat resistance, halogen-free flame retardancy
Case application	Automobile accessories, underwater applications, gears

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	103 °C
Vicat softening point	ASTM D1525	50°C/h 50N	120°C
Fiber/Ash content			%
Density	iso 1183		0.98 g/cm ³
Flexural strength	ASTM D790	1.3mm/min 50nmspan	59 Mpa
Flexural modulus	ASTM D790	1.3mm/min 50nmspan	2150Mpa
Tensile strength	ASTM D638	50mm/min type I	41Mpa
Elongation at break	ASTM D638	50mm/min type I	15 %
Rockwell hardness	ASTM D785	R	105°
Impact strength	ASTM D256	23°	110 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	250-280	250-280	235-260	230-250	20-100	0.3-0.7	60-90

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