

RENHONG® PPO/PA

Manufacturer	Guangdong Renhong New Materials Co., Ltd.
Material identification	PPO/PA alloy
Material shape	Granular
Processing method	Injection moulding
Flame retardant rating	HB
Main property	Chemical resistance, good mechanical properties, high-temperature resistance, and processing characteristics
Case application	Household appliances, mechanical parts, battery cases, and automotive applications

物理机械性能 Mechanical

Mechanical properties	Testing standard	Test condition	Data
Melt flow index	iso 1133	280°C/5kg	20 g/10min
Distortion temperature	ASTM D648	1.8Mpa	190 °C
Vicat softening point	ASTM D1525	50°C/h 50N	212°C
Fiber/Ash content			%
Density	iso 1183		1.08 g/cm ³
Flexural strength	ASTM D790	1.3mm/min 50nmspan	70 Mpa
Flexural modulus	ASTM D790	1.3mm/min 50nmspan	1900Mpa
Tensile strength	ASTM D638	50mm/min type I	50Mpa
Elongation at break	ASTM D638	50mm/min type I	50 %
Rockwell hardness	ASTM D785	R	121°
Impact strength	ASTM D256	23°	200 J/m

Preliminary drying	Barrel temperature (° C)				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature (° C)
	Nozzle	Front	Middle	Back			
120 °C 4-5 hr	250-270	250-270	240-260	240-250	20-100	0.3-1.4	40-100

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