

# RENHONG<sup>®</sup> PA/PTFE

Manufacturer	<b>Guangdong Renhong New Materials Co., Ltd.</b>
Material identification	PA/PTFE alloy
Material shape	Granular
Processing method	Injection moulding
Flame retardant rating	HB
Main property	Self-lubricating property, wear resistance, low water absorption rate, and chemical resistance
Case application	Electrical appliance-related applications, construction engineering

## 物理机械性能 Mechanical

Mechanical properties	Testing standard	Test condition	Data
Melt flow index	iso 1133	265°C/5kg	23 g/10min
Distortion temperature	iso 75	1.8Mpa	195°C
Vicat softening point	ASTM D1525	50°C/h 50N	210°C
Fiber/Ash content			30 %
Density	iso 1183		1.44 g/cm <sup>3</sup>
Flexural strength	ASTM D790	1.3mm/min 50nmspan	151 Mpa
Flexural modulus	ASTM D790	1.3mm/min 50nmspan	8600Mpa
Tensile strength	ASTM D638	50mm/min type I	230Mpa
Elongation at break	ASTM D638	50mm/min type I	3 %
Rockwell hardness	ASTM D785	R	131°
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			
85°C 4 hr	260-270	260-270	250-260	240-250	30-60	0.2-0.3	95-110

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