

# RENHONG<sup>®</sup> PC / PBT

Manufacturer	<b>Guangdong Renhong New Materials Co., Ltd.</b>
Material identification	<b>PC/PBT alloy</b>
Material shape	Granular
Processing method	Injection moulding
Flame retardant rating	HB
Main property	Chemical resistance, high impact resistance, low-temperature resistance, high gloss
Case application	Charging gun handles, industrial toe caps, automobile windshield wipers, and automobile door handles

## 物理机械性能 Mechanical

Mechanical properties	Testing standard	Test condition	Data
Melt flow index	iso 11357	260°C/2.16kg	13.2cm <sup>3</sup> /10min
Distortion temperature	iso 75	1.8Mpa	78°C
Vicat softening point	ASTM D1525	50°C/h 50N	119°C
Fiber/Ash content			%
Density	iso 1183		1.17g/ cm <sup>3</sup>
Flexural strength	ASTM D790	1.3mm/min 50nmspan	70.0Mpa
Flexural modulus	ASTM D790	1.3mm/min 50nmspan	1920Mpa
Tensile strength	ASTM D638	50mm/min type I	47.0Mpa
Elongation at break	ASTM D638	50mm/min type I	110 %
Rockwell hardness	ASTM D785	R	117°
Impact strength	ASTM D256	23°	695 J/m

Preliminary drying	Barrel temperaturee ( ° C )				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature ( ° C )
	Nozzle	Front	Middle	Back			
100°C 3-4hr	245-265	245-265	240-260	235-255	50-80	2-5	60-80

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