

RENHONG[®] PC / PET

Manufacturer	Guangdong Renhong New Materials Co., Ltd.
Material identification	PC/PET alloy
Material shape	Granular
Processing method	Injection moulding
Flame retardant rating	HB
Main property	Chemical resistance, high impact resistance, low-temperature resistance, high transparency
Case application	Outdoor applications, medical devices, e-cigarettes, silk-screened casings

物理机械性能 Mechanical

Mechanical properties	Testing standard	Test condition	Data
Melt flow index	iso 11357	260°C/2.16kg	11.2cm ³ /10min
Distortion temperature	iso 75	1.8Mpa	76°C
Vicat softening point	ASTM D1525	50°C/h 50N	115°C
Fiber/Ash content			%
Density	iso 1183		1.21g/cm ³
Flexural strength	ASTM D790	1.3mm/min 50nmspan	68.1Mpa
Flexural modulus	ASTM D790	1.3mm/min 50nmspan	2300Mpa
Tensile strength	ASTM D638	50mm/min type I	41.0Mpa
Elongation at break	ASTM D638	50mm/min type I	106 %
Rockwell hardness	ASTM D785	R	115°
Impact strength	ASTM D256	23°	633 J/m

Preliminary drying	Barrel temperature (° C)				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature (° C)
	Nozzle	Front	Middle	Back			
110°C 4-5hr	250-270	250-270	240-260	230-260	40-80	0.3-0.5	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.