

RENHONG[®] PC / PMMA

Manufacturer	Guangdong Renhong New Materials Co., Ltd.
Material identification	PC/PMMA 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	230°C/3.8kg	15.3cm ³ /10min
Distortion temperature	iso 75	1.8Mpa	83°C
Vicat softening point	ASTM D1525	50°C/h 50N	125°C
Fiber/Ash content			%
Density	iso 1183		1.18g/cm ³
Flexural strength	ASTM D790	1.3mm/min 50nmspan	81.1Mpa
Flexural modulus	ASTM D790	1.3mm/min 50nmspan	2300Mpa
Tensile strength	ASTM D638	50mm/min type I	59.0Mpa
Elongation at break	ASTM D638	50mm/min type I	53%
Rockwell hardness	ASTM D785	R	120°
Impact strength	ASTM D256	23°	75 J/m

Preliminary drying	Barrel temperature (° C)				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature (° C)
	Nozzle	Front	Middle	Back			
95 °C 3-4 hr	240-260	240-260	230-250	220-240	50-100	10-15	70-85

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