

RENHONG[®] PC / ASA

Manufacturer	Guangdong Renhong New Materials Co., Ltd.
Material identification	PC/ASA alloy
Material shape	Granular
Processing method	Injection moulding
Flame retardant rating	HB
Main property	high impact resistance, low-temperature resistance, Good formability, weather ability
Case application	3D printing, lenses, automotive lighting, electrical appliance casings, robotic dogs, Outdoor robots

物理机械性能 Mechanical

Mechanical properties	Testing standard	Test condition	Data
Melt flow index	ASTM D1238	260°C/5kg	17g/10min
Distortion temperature	ASTM D648	1.8Mpa	1120°C
Vicat softening point	ASTM D1525	50°C/h 50N	131°C
Fiber/Ash content			%
Density	ASTM D792		1.13g/cm ³
Flexural strength	ASTM D790	1.3mm/min 50nmspan	85Mpa
Flexural modulus	ASTM D790	1.3mm/min 50nmspan	2310Mpa
Tensile strength	ASTM D638	50mm/min type I	56.0Mpa
Elongation at break	ASTM D638	50mm/min type I	98 %
Rockwell hardness	ASTM D785	R	113°
Impact strength	ASTM D256	23°	563 J/m

Preliminary drying	Barrel temperature (° C)				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature (° C)
	Nozzle	Front	Middle	Back			
100°C 3-4hr	245-260	245-260	240-250	235-245	30-120	0.5-5	50-100

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