

RENHONG[®] ABS / PMMA

Manufacturer	Guangdong Renhong New Materials Co., Ltd.
Material identification	ABS/PMMA alloy
Material shape	Granular
Processing method	Injection moulding
Flame retardant rating	HB
Main property	Scratch-resistant, high-impact resistance, suitable for electroplating, suitable for spraying, and high gloss
Case application	Household appliances, communication equipment, bathtubs, decorative strips

物理机械性能 Mechanical

Mechanical properties	Testing standard	Test condition	Data
Melt flow index	iso 11357	220°C/10kg	21cm ³ /10min
Distortion temperature	iso 75	1.8Mpa	81°C
Vicat softening point	ASTM D1525	50°C/h 50N	95°C
Fiber/Ash content			%
Density	iso 1183		1.1 g/cm ³
Flexural strength	ASTM D790	1.3mm/min 50nmspan	73 Mpa
Flexural modulus	ASTM D790	1.3mm/min 50nmspan	2300Mpa
Tensile strength	ASTM D638	50mm/min type I	52.0Mpa
Elongation at break	ASTM D638	50mm/min type I	21 %
Rockwell hardness	ASTM D785	R	112°
Impact strength	ASTM D256	23°	90 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	30-80	5-15	40-80

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