

RENHONG® PBT/ASA

Manufacturer	Guangdong Renhong New Materials Co., Ltd.
Material identification	PBT/ASA alloy
Material shape	Granular
Processing method	Injection moulding
Flame retardant rating	HB
Main property	high-impact resistance, suitable for electroplating, suitable for spraying, Chemical resistance, low warpage, weather-proof
Case application	Household appliances, communication equipment, Injection molding machine frames, drone brackets, Outdoor surveillance cameras

物理机械性能 Mechanical

Mechanical properties	Testing standard	Test condition	Data
Melt flow index	iso 1133	260°C/2.16 kg	21 g/10min
Distortion temperature	iso 75	1.8Mpa	85.8°C
Vicat softening point	ASTM D1525	50°C/h 50N	108°C
Fiber/Ash content			%
Density	iso 1183		1.23 g/cm ³
Flexural strength	ASTM D790	1.3mm/min 50nmspan	53.0Mpa
Flexural modulus	ASTM D790	1.3mm/min 50nmspan	1560Mpa
Tensile strength	ASTM D638	50mm/min type I	36.3Mpa
Elongation at break	ASTM D638	50mm/min type I	22 %
Rockwell hardness	ASTM D785	R	83°
Impact strength	ASTM D256	23°	79.5 J/m

Preliminary drying	Barrel temperature (° C)				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature (° C)
	Nozzle	Front	Middle	Back			
90 °C 3-4 hr	240-250	240-250	230-240	220-230	40-100	0.5-10	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.