

# RENHONG® PA/ASA

Manufacturer	Guangdong Renhong New Materials Co., Ltd.
Material identification	PA/ASA alloy
Material shape	Granular
Processing method	Injection moulding
Flame retardant rating	HB
Main property	high-impact resistance, suitable for electroplating, suitable for spraying, weather fastness, Chemical resistance, matte finish
Case application	Household appliances, communication equipment, Chemical resistance, matte finish

## 物理机械性能 Mechanical

Mechanical properties	Testing standard	Test condition	Data
Melt flow index	iso 1133	240°C/10kg	35 g/10min
Distortion temperature	iso 75	1.8Mpa	72°C
Vicat softening point	ASTM D1525	50°C/h 50N	108°C
Fiber/Ash content			%
Density	iso 1183		1.07 g/cm <sup>3</sup>
Flexural strength	ASTM D790	1.3mm/min 50nmspan	60 Mpa
Flexural modulus	ASTM D790	1.3mm/min 50nmspan	1800Mpa
Tensile strength	ASTM D638	50mm/min type I	43Mpa
Elongation at break	ASTM D638	50mm/min type I	157 %
Rockwell hardness	ASTM D785	R	97°
Impact strength	ASTM D256	23°	600 J/m

Preliminary drying	Barrel temperature ( ° C )				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature ( ° C )
	Nozzle	Front	Middle	Back			
85°C 3-4 hr	230-250	220-240	220-240	190-220	30-100	5-15	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.