

Material-Plastic	Rohs Certification Available	Density (g/cm3)	Colour	Characteristics	Limit Specs (mm)	Applications
ABS	Rohs Compliant	1.2	Black	General toughness, versatile material. Can be painted and plated, can use adhesives to bond. Temperature resistance between 70°C and 80°C	1000*600*(20-90)mm	Automotive: Car Body, Wheel, Vent Pipe Electronic: Refrigerator, Air conditioner and others such as camera shell, handle
			Natural (yellow/off-white)		1000*2000*15 1000*2000*100mm	
White			/			
Fire/flame Retardant ABS(UL 94 V0)			White	general toughness. can be plated. Can be bonded after painting	1000*600*(20-90)mm	
			Black			
POM/Derlin,Acetal	Rohs Compliant	2	Black	good toughness,can not be bonded or spray painted. Wear resistant	1000*2000*10 1000*2000*(15-25) 1000*500*(30-120)mm	Wheel gear, Bearing, Auto parts, Machine tools, Pipeline Valve, Faucet
			White		1000*2000*100 1000*500*1200mm	
Static Free POM	TBD		Black		/	
PMMA /Acrylic	Rohs Compliant	1.3	Transparent	crisp, good transparency, can be bonded and painted	1000*1300*1 /1.5/2/2.5mm	Instrument and apparatus, Indicator, Optical Lens, Transparent Pipeline, Appliances,
PC /Polycarbonate (Lexan))	TBD	1.2	Transparent	Crisp, average transparency, can be bonded and spray painted, temperature resistance to 120°C	1000*1000*(0.5-100)mm	Electronics: Switch, Appliances shell Automotive: Safety Lever, Distributer Camera, Helmet, Goggle
			Black			
Fire/flame Retardant PC(V0)	TBD		Black	/	/	
PC+ABS	TBD	/	Black	/	/	
PP /Polypropylene	TBD	1.1	Black	good toughness, can't be bonded or spray painted	1000*2000*(3-120)mm	Chemical Vessel, machinery, Electronics, Packaging, Medical industrials
			White			
High Density PP	TBD	Black				
PP+20%GF	TBD	/	Black	/	/	/
PP+GF	TBD		Black	/	/	/
PPS	TBD	1.3	Natural (Grey)	hard material, can be spray painted and is wear resistant, temperature resistance up to 200°C	1000*800*(15-55)mm	Automotive: Gearbox, Bearing Bracket, Exhaust System Machinery: Pump, Pump Pulley, Valve, Fan and so on
pps+30%GF	TBD	/	Black Grey	/	/	/
			Grey		/	
Bakelite/Woolen	TBD	2	Natural (Brown)	Good toughness, can't be bonded or spray painted. Temperature resistant up to 250°C	1000*1000*(0.5-2)/ 1000*2000*(30-50)mm	Silicon/Rubber button mold, Terminal Block and Mold Plate



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Model Board/Epoxy Tooling board	TBD	/	/	Can be CNC Machined, smooth	/	Fixture, Gauge
Nylon/Polyamide	TBD	1.2	White	good toughness, can't be bonded or spray painted	1000*500*180 mm	Wear Parts, Transmit Structural components, Electric parts, Automotive components
			Black			
PA66/PA6		1.08-1.16	White			
			Black			
PA+15%GF		/	Black			
PA+20%GF		/	Black			
PA66+GF30	1.3	Black				
PE/Polyethylene	TBD	0.941-0.96	Black	Good Toughness, Tensile, Wear resistance	/	Medical parts, Cutting board, Sliding profiles, Agricultural irrigation
			White			
HDPE/High Density Polyethylene			Black			
			White			
LDPE/Low Density Polyethylene			Black			
			White			
PE+15%GF	TBD	/	White	/	/	/
PEEK/Polyetheretherketone	TBD	1.32	Natural (Grey)	Thermostable, Wear resistant, Corrosion resistance, high tensile, Hydrolysis resistance	/	Automotive accessories ,Gearbox Spacer, Seal Ring, Valve units, Skeleton
		Black				
PVC/ Polyvinyl Chloride	TBD	1.35-1.45	Grey	Waterproof, Acid-Base, Light weight, Heat preservation	/	Shoe Sole, Toy, Doors and windows, stationery
		White				
PBT	TBD	/	Black	Good Wear-resisting	/	Connector, Bobbin, Cooling Fan
PBT+30%GF	TBD	/	Black	/	/	/
PEI	TBD	1.38~1.42	Amber/Succinite	Good Stability, Chemical resistance	/	Sensor, Connector, Inner panel, handle, Artificial Limb
PET/Polyethylene terephthalate	TBD	1.39	White	Good Wear-resisting	/	Bearing, piston, screw
PTFE/Teflon	TBD	2.1-2.3	White	Anticorrosion, Anti-Aging, Isolation,	/	Seal/Gasket, Isolation devices



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Material-Metal	Rohs Compliant	Density (g/cm3)	Type	Characteristics	Limit Specs (mm)	Application
AL	TBD	2.7	AL6061/T6/T651	Can be paint, anodized(Natural, Clear and Black) and Polished	Selection Available	Automotive. Medical. Machinery industrials and so on
			AL7075/T6/T7351			
			AL6082/T6			
			AL5052/H112/H32			
			AL2024/T3/T4/T6/T351			
			AL5082			
			AL5083			
			AL5251			
			AL2017/T351/T4			
			ADC12			
			A380			
			LM24			
			Selection Available			
SS	TBD	7.93-7.98	SS201	Can be painted, polished	Selection Available	Automotive. Medical. Machinery industrials and so on
	TBD		SS202			
	TBD		SS301			
	TBD		SS303			
	Rohs Compliant		SS304/L			
	TBD		SS316/L			
	TBD		SS321			
	TBD		SS310S			
	TBD		SS401			
	TBD		SS409			
	TBD		SS410			
	TBD		SS416			
	TBD		SS4140			
	TBD		SS4340			
	TBD		SS455			
	TBD		SS630			
	TBD		17-4 PH			
	TBD		Selection Available			



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Material-Metal	Rohs Compliant	Density	Type	Characteristics	Limit Specs (mm)	Application
Steel	TBD	7.8	C45/Carbon Steel/Mild Steel	Can do passivation, Heat treatment(HRC)	Selection Available	Automotive. Medical. Machinery industrials and so on
			4140			
			Prehard			
			CRS(Control Roll Steel)			
			Alloy Steel			
			Spring Steel			
			Bearing Steel			
			Tool Steel			
			41CrALMo7			
			Magnetic steel			
			Steel8620			
			Steel4130			
			Steel9310			
Steel1018						
			Selection Available			
CU	Rohs Compliant	8.9	Brass	can be electroplated and welded, hard metal	1-60mm	Automotive. Medical. Machinery industrials and so on
	TBD		Copper		0.5-60mm	
	TBD		Bronze		/	
	TBD		Beryllium Copper		/	
	TBD		Phosphor Bronze 510		/	
Iron Alloy	TBD	7.8	/	Conductive Magnetic	/	Electronic Components Machinery industrials
Zinc Alloy	TBD	/	/	Can do Electroplating, polishing, painting	/	Automotive. Machinery industrials and so on