

No.	Material Abbreviation	Full Name	Known as	Features	Application
1	ABS	Acrylonitrile Butadiene Styrene	ABS	Good toughness, suitable for bounding, painting, electroplating and silk screening, Very good workability, special appearance, low creep properties, good dimension stability and very high impact strength.	Apply to shells of computer and commercial machine, electrical devices, gardening machine, automobile parts like dash board, inside decoration and wheel cover
2	PC	Polycarbonate	PC	Ordinary transparency, good toughness, suitable for painting but not for water plating, Great impact strength, high tensile strength, bending strength and compressive strength; low creep properties, steady dimension; have good heat resistance and low temperature	PC can be used for glass of door and window, Laminated PC is widely used as the shielding window of public place. PC board can be used to do kinds of automobile dash board and other indicators.
3	PP	Polypropylene	PP	High intensity, good toughness, not suitable for bounding, not suitable for painting, lighter than other materials, Very light, have good anti-moisture-absorption, acid and alkali corrosive resistance.	Apply to automobile industry (mainly use pp with technology additives: mud guard, vent pipe and fan), gasket for refrigerator and dish washing machine, frame of washing machine . etc.
4	PMMA	Polymethyl Methacrylate	Acrylics	More crisp, suitable for bounding, painting and electro plating, have good optical characteristic and climatic variation resistance, have high light transmission.	Mainly apply to automobile industry like traffic light devices, dash board, medical industry like blood container, and others
5	PA6	Polyamide-6	Nylon		With great mechanical strength and stiffness, apply to structure parts, have good wearing character, and be used to produce bearing
6	PA 66	Polyamide-66	Nylon		Good stiffness, hardness and heat resistance, low friction coefficient, strongest creep property resistance, apply to industry, instrument shell and other products that need high strength and impact resistance.
7	POM	Polyformaldehyde	POM	High intensity, good toughness, can not be glue, or painted (not detachable for processing)	High mechanical strength, high stiffness, good hardness, good flexibility, lubricity and abrasive resistance, even in low temperature the dimension is steady. apply to tightness component, wheel gear and bearings in automobile, electronics, medical and sport devi
8	PF	Bakelite	Bakelite		Insulation, non static electricity, non water absorption, non conducting, wear resistance, high temperature resistance, high impact strength. apply to electric equipment and insulation components that ask for high mechanical property.
9	AL	Aluminium alloy	AL	Low density, good toughness, better abrasive resistance after anodizing	Both of electrical conductivity and heat conductivity are good, good moulding and machinability, with high mechanical property and corrosion resistance, behave well in fresh water, sea water, nitric acid and gasoline . etc.
10	Magnesium alloy	Magnesium alloy	Magnesium alloy	The lowest density among all die casting alloy, low melting point, little deformation under low temperature, high dimensional accuracy	It can reduce the sound and shake to enhance the stability of automobile, is widely used in automobile industry. it has been rapidly growing in computer, communication, electronics and sports area.
11	Brass	Brass	Brass	Stronger abrasive resistance, high intensity, good hardness, good chemical resistance	It is usually used to produce tap, water pipe, air conditioner cooler and joint pipe. with 62%-68% copper contained, it has strong plastic property, good for making voltage withstanding devices.
12	Zinc alloy	Zinc alloy	Zinc alloy	Good crush and abrasive resistance, great electromagnetic shielding ability, good electro plating effect	It is with good die casting property, the casting has high accuracy and good crush resistance and abrasive resistance, it is widely used in electronic, hardware, toy and other area.