

Injection Molded Plastic



Material	Abbreviation	Characteristics
Acrylonitrile butadiene styrene	ABS	Cosmetic surface, high impact strength
Acrylonitrile butadiene styrene + Polycarbonate	ABS+PC	UV stable, excellent impact performance
Acrylonitrile butadiene styrene + Polycarbonate + Glass Fill	ABS+PC+GF	Tough, rigid, dimensional stability
Acrylate styrene acrylate	ASA	Very good UV resistance, rigid
Nylon 6-6 Polyamide	PA66	good stiffness, hardwearing
Nylon 6-6 + Glass Fill	PA66+GF	Glass fibre reinforced, durable
Polycaprolactam	PA6	Good resistance to abrasion and chemical situation
Polycaprolactam + Glass Fill	PA6+GF	Excellent impact strength, stiffness and temperature resistance
Polybutylene terephthalate	PBT	Dimensional stable, tough
Polybutylene terephthalate + Glass Fill	PBT+GF	outstanding processability, good chemical and impact resistance
Polycarbonate	PC	good thermal performance, dimensional stability
Polycarbonate + Glass Fill	PC+GF	High stiffness, good flammability performance
Polyether ether ketone	PEEK	Chemical resistance, High performance thermoplastic
Polyetherimide	PEI	high heat and impact resistance, broad chemical resistance
Polyethylene terephthalate	PET	Chemical and temperature resistance, excellent tough
Polyethylene	PE	Chemical resistance, food grade available, moisture resistance

Polyethylene-Low Density	LDPE	Cold resistance, wide range of flexibility
Polyethylene-High Density	HDPE	High rigidity, high impact resistance, high stability
Polymethyl methacrylate	PMMA (Acrylic)	Excellent optical clarity, good weather resistance, impact resistance
Polyoxymethylene	POM (Acetal/Delrin)	Thermal stability, good mechanical properties, high gloss
Polyoxymethylene+ Glass Fill	POM + GF	Dimensional stable, good wear resistance, rigid
Polypropylene	PP	Good impact strength, food grade available
Polypropylene + Glass Fill	PP + GF	Solvent resistance, good chemical resistance
Polyphenylene sulfide	PPS	Good chemical resistance in high temperature
Polyphenylene sulfide + Glass Fill	PPS + GF	Excellent dimensional stability, flame retardant
Polyphenylsulfone	PPSU	Chemical resistance, flame retardant
Polystyrene	PS	Impact resistance, good dimensional stability
Polystyrene - High Impact	HIPS	Transparent, high gloss, rigid and tough
Polysulfone	PSU	Excellent high thermal stability, good toughness, corrosion resistance
Polyvinylchloride	PVC	Wide range of flexibility, non-flammable, good insulation properties
Polyvinylidene fluoride	PVDF	Heat and chemical resistant, excellent processability
Styrene acrylonitrile	SAN	Heat Resistance, transparency, dimensional stability
Thermoplastic elastomers	TPE	Chemical resistance, easily processed
Thermoplastic polyurethane	TPU	Abrasion and wear resistance, low temperature flexibility