

Acronym	Nomenclature	Specific gravity	Mold Shrinkage (%)	Heat Defl. Temp ϵ J	Notched Izod Impact(ft.1b/in)	Tensile Strength 1b/in ²	Applications
GPPS	General Purpose Polystyrene	1.16	0.3-0.6	70-80	0.35-0.45	5200-7500	Stationery furniture, Lamp cover Toys
HIPS	High Impact Polystyrene	1.08	0.5	70-85	0.95-7.00	1900-6200	Furniture, Electric Component, Cabinet, Toys
ABS	Acrylonitrile Butadiene Styrene	1.05	0.6	80-95	1.4-12	3300-8000	Toys, Handle, Sport facility, Home ware
AS(SAN)	Acrylonitrile Styrene	1.07	0.6	85-95	0.4-0.6	10000-11900	Furniture, Tableware, Watch Glass, Accessory
LDPE	Low Density Polyethylene	0.92	3	35-50	no fracture	1200-4550	Bag, Wire, Toys, Plastic flower, Bottle
HDPE	High Density Polyethylene	0.96	3	40-75	0.40-4.00	3200-4500	Bag, Tub Wire, Toys
EVA	Ethylene-Vinyl Acetate	0.95	2	N.A	no fracture	2200-4000	Pliofilm, Blowing molding toys, Innersole
PVC (Rigid)	Polyvinyl Chloride (Rigid)	1.38-1.41	1.5	N.A	0.4-22.00	5900-7500	Tube, Plank, Wire, Cable, Shoes, Window Frame
PVC (Plasticized)	Polyvinyl Chloride (Plasticized)	1.19-1.35	4	N.A	Full range	1500-3500	Tube, Plank, Wire, Floorboard, Leatheroid
PP	Polypropylene	0.91	2	60-100	0.40-1.2	4500-6000	Bag, Toys, Furniture, Bottle. Bucket
PMMA	Polymethyl Methacrylate (Acrylic)	1.18	0.6	95-103	0.33-0.60	7000-11000	Accessory, Watch Glass, Lamp cover, Sunglass
PA-6	Polyamide-6 (Nylon 6)	1.13	0.7-1.0	180	0.60-3.00	6000-24000	Gear, Bearing oil tube, Furniture
PA-66	Polyamide-66 (Nylon 66)	1.13	1.3	200	0.55-2.10	11000-13700	Mech component, Gear, Shaft, Tools Cabinet
POM	Polyacetel	1.42	2.1	172	0.80-2.30	9200-10200	Gear, Bearing, Cam, Pump, Electric appliances
PC	Polycarbonate	1.20	0.5	137	14.00-16.00	9000-10000	Apparatus, Mech, Remedial Instrument Bullet-Resistant Glass
PET	Poly(Ethylene Terephthalate)	1.33	0.4	67	0.25-0.7	7000-10500	Beverage bottle, Chain, Gear, Audiotape
PBT	Poly(Butylene Terephthalate)	1.40	1.5-2.2	152	0.70-1.00	7800-8600	Electric Component, Valve Screw net, Shield veil
CA	Cellulose Acetate	1.26	0.5	81	1.00-7.80	1900-9000	Home ware Handle, Container, Glass frame, Accessory
PPS	Polyphenylene Sulfide	1.3	0.7	126	0.10-0.50	9000-10000	Heat-Resistant Component, Cabinet
PPO	Polyphenylene Oxide	1.07	0.5-0.8;@	126	4.00-6.00	7800-9600	Mech Cabinet, Electric Cabinet