



Specific Gravity of Plastic material	
Material, Abbreviation	Specific Gravity g/cm <sup>3</sup>
ABS	1.04
ABS-PA	1.06
ABS-PC	1.13
ABS-TPU	1.12
Acetal	1.42
Acrylic	1.19
ASA	1.05
ASA+AES	1.05
EVA	.937-.964
LCP	1.5-1.81
Nylon 4/6	1.17-1.70
Nylon 6	1.13
Nylon 6/6	1.14
Nylon 6/10	1.07-1.63
Nylon 6/12	1.03-1.46
PBT	1.31-1.72
PC	1.20
PC+PBT	1.22
PE	0.88-0.965
PEEK	1.37-1.70
PEI	1.27-1.61
PES	1.37-1.70
PET	1.28-1.84
PP-CP	0.90
PP-HP	0.90
PPO	1.04-1.06
PPS	1.4-2.0
PS-GP	1.05
PS-HI	1.05
PSU	1.38-1.57
PVS (RIGIT)	1.23-1.54
PVS (FLEX)	1.12-1.72
SAN	1.07
SB	1.01
TPE	0.875-1.34
TPO	0.83-1.15
TPU	1.04-1.30
TPUR	1.19-1.70
SMA	1.07

Specific Gravity of Fillers and Reinforcements	
Filler or Reinforcement	Specific Gravity g/cm <sup>3</sup>
Aluminum Oxide	5.50
Aramid Fiber	1.44
Barium Ferrite	5.40
Barium Sulfate	4.50
Barium Titanate	5.7-6.1
Bronze	8.80
C-2 Alumina	3.80
Calcium Carbonate	2.70
Carbon	2.08
Carbon Black	2.05
Carbon Fiber (PAN)	1.7-1.8
Carbon Fiber (Pitch)	1.99
Clay	2.60
Coke Flour	2.05
Copper	8.20
DBDO	3.25
Ferric Oxide	4.86
Fiber Glass	2.54
Glass Beads (hollow)	0.60-.065
Glass Beads (solid)	2.48
Graphite	2.08
Hydrated Alumina	2.40
Iron	7.90
Lead	11.60
Methanol	0.79
Mica	2.80
MoS2 (real)	4.80
Nickel Coated CF	2.80
PC FR Concentrate	1.22
PTFE	2.17
Silicone	0.98
SiO2	2.30
SM3 (Moly sub)	3.00
Steel	8.02
Strontium Ferrite	5.10
Talc	2.75
Tungsten	19.35
Wollastonite	2.90
Zinc Sulfide	4.00

Specific gravity X 16.3870 = Grams per cubic inch (g/in<sup>3</sup>)

Specific gravity X 0.5778 = Ounces per cubic inch (oz/in<sup>3</sup>)

Specific gravity X 0.0361 = Pounds per cubic inch (lbs/in<sup>3</sup>)

Specific gravity X 62.3550 = Pounds per cubic foot (lbs/ft<sup>3</sup>)

Specific gravity X 0.99756 = Density

Pounds per cubic foot (lbs/ft<sup>3</sup>) X 0.01604 = Specific gravity

$$\text{Cost per cubic inch} = \frac{(\text{Cost per pound}) \times (\text{Specific Gravity})}{27.69}$$

$$\text{cost per gram} = \frac{\text{cost per pound}}{453.5924}$$

$$\text{cost per ounce} = \frac{\text{cost per pound}}{16}$$