

General Purpose Abs Sheet Specifications

Test	Condition	Units	Value
Specific Gravity	ASTM D792	g/cm ³	1.04
Tensile Modulus	ASTM D638	psi	310,000
Tensile Strength	ASTM D638	psi	6,000
Flexural Modulus	ASTM D790	psi	340,000
Flexural Strength	ASTM D790	psi	10,000
Izod Impact	ASTM D256	Ft-lbs/in.	7.5
	(73°F, -40°C)		2.5
Falling Dart Impact	ASTM D3029	Ft-lbs	33
	(73°F, -40°C)		12
Heat Deflection Temperature	ASTM D648	°F	198
Hardness	ASTM D785	Rockwell R	105
Gardner Gloss	ASTM D523	%	90
Flammability Rating	MVSS 302		Passes
	UL94 HB		Passes

ABS

Physical properties-Engineering grade

Tolerances	
Gauges	Width/Length
3/8" - 1-1/4" +/- 10% 1-1/2" AND OVER +ONLY	+1/2", -1/4"

Property	Units	ASTM	Nominal Value*
Density	g/cc	D1505	1.03
Tensile Strength @ Yield	p.s.i.	D638	>6,000
Elongation @ Break	%	D638	40
Flexural Modulus	p.s.i.	D790	300,000
Durometer	Rockwell	D785	R-102
Vicat Softening Temp.	°C	D1525	104
Izod Impact	ft. lbs./in.	D256	7.7
Heat Deflection Temperature at 66 P.S.I.	°C	D648	94

*All values are determined on specimens prepared according to ASTM testing procedures (if applicable). Nominal values should not be interpreted as specifications.

ABS Round Rods

Dimensions in inch

Dimensions in inch		ABS	
Diameter		Tol. (-0;+)	lbs/ft
1/4	0.250	+0.010	0.023
3/8	0.375	+0.015	0.051
1/2	0.500	+0.020	0.090
5/8	0.625	+0.025	0.141
3/4	0.750	+0.030	0.203
7/8	0.875	+0.035	0.276
1	1.000	+0.040	0.361
1 1/4	1.250	+0.050	0.564
1 3/8	1.375	+0.055	0.688
1 1/2	1.500	+0.060	0.812
1 5/8	1.625	+0.065	0.957
1 3/4	1.750	+0.070	1.110
1 7/8	1.875	+0.075	1.274
2	2.000	+0.080	1.440
2 1/8	2.125	+0.085	1.636
2 1/4	2.250	+0.090	1.948
2 1/2	2.500	+0.100	2.260
2 3/4	2.750	+0.110	2.755
3	3.000	+0.120	3.250
3 1/4	3.250	+0.130	3.828
3 1/2	3.500	+0.140	4.420
3 3/4	3.750	+0.150	5.097
4	4.000	+0.160	5.770
4 1/4	4.250	+0.170	6.547
4 1/2	4.500	+0.180	7.380
5	5.000	+0.200	9.020
5 1/2	5.500	+0.220	10.920
6	6.000	+0.240	12.990

■ **Stock lengths**

1/4" - 2" = 8 ft

2 1/8" - 6" = 4 ft

Lengths: + tolerances

■ **Standard**

Colors

⊙ natural

○ black

Centerless grinding possible

available ex stock