

ABS Material Properties:

PROPERTIES	ASTM TEST METHOD	TEST CONDITION	UNIT	TYPICAL VALUE
Melt Flow Index	D1238	200°C, 5Kg	g/10min	1.6
Mess Density	D792	23°C	g/cm3	1.05
Hardness	D785	/	R Scale	116
Tensile Strength(Yield)	D638	6mm/min	Kg/cm2	470
			lb/in2	6660
Tensile Elongation	D638	6mm/min	%	25
Flexural Strength	D790	2.8mm/min	Kg/cm2	790
			lb/in2	11660
Flexural Modulus	D790	2.8mm/min	10 ⁴ Kg/cm2	2.7
			10 ⁵ lb/in2	3.8
Izod Impact Strength	D256 (Notched)	6.4mm, 23°C	Kg-cm/cm	20
			ft-lb/in	3.7
		3.2mm, 23°C	Kg-cm/cm	21
			ft-lb/in	3.9
Vicat Softening Temp.	D1525	1Kg,50°C/hr	°C	105
Heat Distortion Temp.	D648	1.8MPa Annealed	°C	95
		1.8MPa Unannealed		85
UL Flammability	UL94	/	/	1.5mm HB

Note: These are typical properties only and are not to be construed as specifications.