



Test Item/Unit	Test Method (ASTM)	Test Condition	ABS 710 General Plating	ABS 720 High Rigidity	ABS 740 High Impact Resistance	ABS 750 SW Improved Base color	ABS 770 Extrusion	ABS 780 High Flow	ABS 795 Super Impact Strength	ABS H2938 Heat Resistance
Tensile Strength {Kg/cm ² (psi)}	D638	23°C, 50mm/min	420 (5,960)	580 (8,240)	420 (5,960)	510 (7,240)	450 (6,390)	500 (7,100)	370 (5,250)	490 (6,960)
Elongation (%)	D638	50mm/min	30	20	60	30	50	30	70	25
Flexural Strength {Kg/cm ² (psi)}	D790	23°C	600 (8,520)	750 (10,650)	580 (8,240)	720 (10,220)	610 (8,660)	670 (9,510)	550 (7,810)	650 (9,230)
Flexural Modulus {Kg/cm ² (psi)}	D790	23°C	20,000 (284,000)	26,000 (369,200)	20,000 (284,000)	24,000 (340,800)	22,000 (312,400)	23,000 (326,600)	16,500 (234,300)	23,000 (326,600)
Rockwell Hardness	D785	R scale	102	115	98	110	106	108	95	107
IZOD Impact Strength	D256	3.2mm, Notched, 23°C (73°F)	28(5.1)	18(3.3)	37(6.8)	25(4.5)	27(5.0)	23(4.2)	48(8.8)	21(3.9)
		6.4mm, Notched, 23°C (73°F)	25(4.6)	16(3.0)	28(5.1)	22(4.1)	24(4.4)	20(3.6)	35(8.2)	18(3.3)
Heat Distortion Temp {°C(°F)}	D648	18.6Kg/cm ² (264psi), unannealed	85(185)	88(190)	82(178)	85(185)	88(190)	85(185)	81(178)	97(207)
Vicat Softening Temp {°C(°F)}	D1525		-	-	-	-	97(207)	95(203)	91(196)	115(239)
Melt Flow Index (g/10min)	D1238	200°C, 5.0Kg	2.9	2	2.1	4.2	1.8	6.3	1.2	2.1
		220°C, 10.0Kg	30	8	25	35	16	55	7.5	7.6
		200°C, 21.6Kg	39	13	34	48	25	62	12	9
Molding Shrinkage (%)	D955		0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7
Specific Gravity	D792	23°C	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.04
Flammability (Rating)	UL94	Class	HB	HB	HB	HB	HB	HB	HB	HB