



## MATERIAL SPECIFICATIONS :

PROPERTY	METHOD	UNIT	ABS 94VO
<b>PHYSICAL</b>			
Melt Flow Index 200°C x 5 kg (cond. G)	ASTM D1238	g/10 min	5.2
230°C x 3.8 kg (cond. I)	ASTM D1238	g/10 min	13
220°C x 10 kg	ISO 1133	g/10 min	60
Specific Gravity	ASTM D792	-----	1.20
Mold Shrinkage (Flow, 1/8 in)	ASTM D955	in/in x 10 <sup>-3</sup>	3-7
<b>MECHANICAL @73°C</b>			
Izod Impact Strength (Notched) 1/8"	ASTM D256	ft • lb/in (J/m)	3.7 (198)
Izod Impact Strength (Notched) 1/4"	ASTM D256	ft • lb/in (J/m)	2.9 (155)
Tensile Strength at Yield	ASTM D638	psi Mpa	5500 38
Tensile Modulus (6mm/min)	ASTM D638	psi Mpa	360000 2482
Elongation at Break	ASTM D638	%	15
Flexural Modulus	ASTM D790	psi Mpa	300000 2068
Flexural Strength at Yield	ASTM D790	psi Mpa	8800 61
Hardness (Rockwell, R-Scale)	ASTM D785	-----	100
<b>THERMAL</b>			
Heat Deflection Temp. (1/4" Test Specimens)	ASTM D648	°F(°C)	163 (73)
264 psi (1.82 Mpa) Unannealed		°F(°C)	181 (83)
264 psi (1.82 Mpa) Annealed φ		°F(°C)	181 (83)
66 psi (0.46 Mpa) Unannealed			
Vicat Softening Temp (1kg, 50°C/hr)	ASTM D1525	°F(°C)	194 (90)
Coefficient of Thermal Expansion	ASTM D696	in/in/°F x 10 <sup>-5</sup> mm/mm/°F x 10 <sup>-5</sup>	7.2 12.9
(-40°C → 80°C, Annealed)			
<b>ELECTRICAL @73°F</b>			
Volume Resistivity	ASTM D257	ohm-cm	> 10 <sup>15</sup>
<b>FLAME CLASS RATING</b>			
UL 94VO (Min. Tested Thickness)	UL94	in (mm)	0.062 (1.57)