PHYSICAL PROPERTIES

Properties		Testing Method		Value	Unit
Specific		D792	ASTM	1.19	
Mechanical	Strength at Maximum Load	D638	ASTM	630	kgf/cm²
	Tensile Modulus	D638	ASTM	32800	kgf/cm²
	Elongation at Break	D638	ASTM	2.88	%
	Flexural Strength	D790	ASTM	1120	kgf/cm²
	Flexural Modulus	D790	ASTM	30000	kgf/cm²
	Impact Strength	D256	ASTM	1.81	kgf.cm/cm
	Rockwell Hardness	D785	ASTM	99.6	M scale
	Compressive Strength at Yield	D695	ASTM	1140	kgf/cm²
	Shear Strength	D732	ASTM	653	kgf/cm²
Optical	Light Transmittance	D1003	ASTM	92.5	%
	Haze	D1003	ASTM	0.124	%
	Yellow Index	E313	ASTM	-1.06	
	Refractive Index			1.4528	
Thermal	Heat Deflection Temperature	D648	ASTM	101	℃
	Vicat Softening Temperature	D1525	ASTM	121	℃
	Coefficient of Linear Thermal Expansion	D696	ASTM	50.7*10^-6	℃
	Thermal Conductivity	C177	ASTM	0.201	W/m.k
	Horizontal Burning	D635	ASTM	meet requirement	
	Forming Temperature			140-170	℃
	Maximum Reconmmended			70	℃
Electrical	Dielectric Strength	D149	ASTM	18.3	KV/mm
	Arc Resistance	D495	ASTM	>600	V
Miscellaneous	Water Absorption (24 hours)	D570	ASTM	0.265	%