


PHYSICAL PROPERTIES OF *staren* TRANSPARENT PC SC-1220

Properties at 23°C	Test Method	Test Condition	Unit	Value
Physical Properties				
Specific Gravity	ASTM D792	Natural Color	-	1.20
Water Absorption	ASTM D570	24hr, immersion water	%	0.20
Melt Flow Index	ASTM D1238	300 ,1.2kg	g/10min	22
Mold Shrinkage	ASTM D955	-	%	0.5~0.7
HAZE	ASTM D1003	3.2mm	%	< 0.8
Mechanical Properties				
Tensile Strength	ASTM D638	-	MPa(psi) kgf/cm ²	- 630
Flexural Strength	ASTM D790	2.8mm/min	MPa(psi) kgf/cm ²	- 920
Flexural Modulus	ASTM D790	2.8mm/min	MPa(psi) kgf/cm ²	- 24,000
Izod Impact Strength (notched)	ASTM D256	1/4 inch	J/m(ft·lbf/in) kgf·cm/cm	-
		1/8 inch	J/m(ft·lbf/in) kgf·cm/cm	- 87
Rockwell Hardness	ASTM D785	M-scale	-	77
Thermal Properties				
Thermal Deflection Temperature (unannealed), 1/4"	ASTM D648	18.6kgf/cm ² 120 /hr	°C	136
		4.6kgf/cm ² 120 /hr		125
Vicat Softening Temperature (unannealed)	ASTM D1525	1kg, 50 /hr	°C	149
Flammability				
UL 94 Classification	UL94	1.6mm specimen 3.2mm specimen	Recognized	V-2 V-2

* The above values are only the representatives of natural color specimen, not for guarantee

* last updated : February 13, 2007