

PHYSICAL PROPERTIES OF **staren** PC LB-1090HW

Properties at 23°C	Test Method	Test Condition	Unit	Value
Physical Properties				
Specific Gravity	ASTM D792	Natural Color		1.27
Water Absorption	ASTM D570	24hr, immersion in water	%	-
Melt Flow Index	ASTM D1238	200°C/5kg 220°C/10kg 250°C/10kg	g/10min g/10min g/10min	33
Mold Shrinkage	ASTM D955		%	0.5~0.7
Gloss	ASTM D523		%	-
Mechanical Properties				
Tensile Strength	ASTM D638	50mm/min	MPa(psi) kgf/cm²	59(8,500) 600
Elongation at Break	ASTM D638	50mm/min	%	80
Flexural Strength	ASTM D790	2.8mm/min	MPa(psi) kgf/cm²	88(13,000) 900
Flexural Modulus	ASTM D790	2.8mm/min	MPa(psi) kgf/cm²	2,400(340,000) 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	690(12.8) 70
Rockwell Hardness	ASTM D785	R-scale	-	-
Thermal Properties				
Heat Deflection Temperature (unannealed),1/4"	ASTM D648	18.56kgf/cm²	°F	246
			°C	119
Vicat Softening Temperature (unannealed)	ISO R 306	5kg	°F	264
			°C	129
Flammability				
UL 94 Classification	UL94	1.5mm specimen	Recognized	V-0
		0.75mm specimen	Recognized	V-2
UV Resistance	ASTM D4459	300Hr Ivory Color	Delta E	

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

* last updated : November. 05, 2005