HI-121H(ABS High Impact Grade)

Item	Test method	Test Condition	Unit	Value
PHYSICAL				
Melt Index	ASTM D1238	200°C/5kg 220°C/10kg 230°C/3.8kg	g/10min g/10min g/10min	1.8 20 6
Specific Gravity Mold Shrinkage	ASTM D792 ASTM D955		- %	1.05 0.4~0.7
MECHANICAL				
Tensile Strength	ASTM D638	50mm/min	kg/cm² MPa lb/in²	550 54 7,800
Tensile Modulus	ASTM D638	50mm/min	kg/cm² MPa lb/in²	22,600 2,210 321,000
Elongation at Yield	ASTM D638	50mm/min	%	>6
Elongation at Break	ASTM D638	50mm/min	%	30
Flexural Strength	ASTM D790	15mm/min	kg/cm² MPa lb/in²	800 78 11,400
Flexural Modulus	ASTM D790	15mm/min	kg/cm² MPa lb/in²	26,000 2,550 369,000
Izod Impact Strength(notched)	ASTM D256	1/4", 23°C	kg·cm/cm J/m ft-lb/in	20 200 3.7
		1/4", -30°C	kg·cm/cm J/m ft-lb/in	7 72 1.3
		1/8", 23°C	kg·cm/cm J/m ft-lb/in	22 220 4
		1/8", -30°C	kg·cm/cm J/m ft-lb/in	8 77 1.5
Rockwell Hardness	ASTM D785	R-scale		109
THERMAL				
Heat Deflection Temp	ASTM D648	1/4", 18.56kg/cm² (annealed)	°C °F	87 189
		1/4", 18.56kg/cm² (unannealed)	°C °F	84 183
		1/4", 4.6kg/cm² (annealed)	°C °F	93 199
		1/4", 4.6kg/cm² (unannealed)	°C °F	90 194
Vicat Softening Temp	ASTM D1525	1kg/120°C/h	°C °F	99 210
		5kg/50°C/h	°C °F	94 201
ELECTRICAL				
HWI HAI HVTR Arc Resistance CTI	 UL 746A ASTM D495 UL 746A	PLC Code		3 2 2 6 0
FLAMMABILITY				
Flammability	UL 94	1/8" 1/10" 1/16"	class	HB HB
	IEC 707	1/8" 1/16"	mm/min	FH3-34
CHRACTERISTIC				High impact, Whiteness

*Note : 1)The values of properties in the above table have been obtained by the test pieces(natural color) manufactured under certain of injection.

2)The listed values should be used for referential purposed only.