

## ABS : High Impact Grade

### ▸ Application

Micellaneous Goods

### ▸ Feature

LG high impact ABS HI-121H provides a wide range of selection from those ultra-high impact strength to general impact strength depending upon requirements of our customers.

### ▸ Properties

ALL Metric SI British				
Physical	Method	Condition	Unit	Value
Melt Index	ASTM D1238	200□/5kg	g/10min	2.3
	ASTM D1238	220□/10kg	g/10min	23.0
	ASTM D1238	230□/3.8kg	g/10min	6.0
Specific Gravity	ASTM D792	23□	-	1.04
Mold Shrinkage	ASTM D955	-	%	0.4~0.7
Mechanical	Method	Condition	Unit	Value
Tensile Strength at Yield	ASTM D638	50mm/min	kg/□	520
Tensile Modulus	ASTM D638	50□/min	kg/□	22,600
Elongation at Yield	ASTM D638	50mm/min	%	>5
Elongation at Break	ASTM D638	50mm/min	%	>10
Flexural Strength	ASTM D790	15□/min	kg/□	770
Flexural Modulus	ASTM D790	15mm/min	kg/□	26,000
IZOD Impact strength	ASTM D256	1/4",23□	kg·cm/cm	23
	ASTM D256	1/4",-30□	kg·cm/cm	8
	ASTM D256	1/8",23□	kg·cm/cm	23
	ASTM D256	1/8",-30□	kg·cm/cm	8
Rockwell Hardness	ASTM D785	R-Scale	-	111

Electrical	Method	Condition	Unit	Value
HWI	UL 746A	PCLCode	-	3
HAI	UL 746A	PCLCode	-	1
CTI	UL746A	PCLCode	-	0
HVTR		PCLCode	-	2
Arc Resistance	ASTM D495	PCLCode	-	6

Thermal	Method	Condition	Unit	Value
Heat Deflection Temp	ASTM D648	1/4",18.5kg/□(unannealed)	°C	88
	ASTM D648	1/4",4.6kg/□(unannealed)	°C	90
	ASTM D648	1/4",18.5kg/□(annealed)	°C	92
	ASTM D648	1/4",4.6kg/□(annealed)	°C	93
Vicat Softening Temp	ASTM D1525	5kg,50□/hr	°C	94

Flammability	Method	Condition	Unit	Value
Flammability	UL94	1/8"	class	HB
	UL94	1/16"	Class	HB
	IEC707	1/8"	□/min	FH3-34



1) The listed values should be used for referential purpose only.