

# performanceplastics

## HI121H ABS: High Impact Grade; Suitable for Plating

### Properties

Physical	Method	Condition	Unit	Value
Melt Index	ASTM D1238	200°C/5kg	g/10min	2.3
	ASTM D1238	220°C/10kg	g/10min	23
	ASTM D1238	230°C/3.8kg	g/10min	6
Specific Gravity	ASTM D792	23°C	–	1.04
Mold Shrinkage	ASTM D955	–	%	0.4~0.7
Mechanical	Method	Condition	Unit	Value
Tensile Strength at Yield	ASTM D638	50mm/min	MPa	51.3
Tensile Modulus	ASTM D638	50mm/min	MPa	22,600
Elongation at Yield	ASTM D638	50mm/min	%	>5
Elongation at Break	ASTM D638	50mm/min	%	>10
Flexural Strength	ASTM D790	15mm/min	MPa	76
Flexural Modulus	ASTM D790	15mm/min	MPa	26,000
IZOD Impact strength	ASTM D256	6.4mm, 23°C	J/m	225.4
	ASTM D256	6.4mm, -30°C	J/m	78.4
	ASTM D256	3.2mm, 23°C	J/m	225.4
	ASTM D256	3.2mm, -30°C	J/m	78.4
Rockwell Hardness	ASTM D785	R-Scale	–	111
Electrical	Method	Condition	Unit	Value
HMI	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	6.4mm, 18.5kg/cm <sup>2</sup> (unannealed)	°C	88
	ASTM D648	6.4mm, 4.6kg/cm <sup>2</sup> (unannealed)	°C	90
	ASTM D648	6.4mm, 18.5kg/cm <sup>2</sup> (annealed)	°C	92
	ASTM D648	6.4mm, 4.6kg/cm <sup>2</sup> (annealed)	°C	93
Vicat Softening Temp	ASTM D1525	5kg, 50°C/hr	°C	94
Flammability	Method	Condition	Unit	Value
Flammability	UL94	3.2mm	class	HB
	UL94	1.6mm	Class	HB
	IEC707	3.2mm	mm/min	FH3-34

The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products.

Prospective users should determine the suitability of materials before adopting them on a commercial scale.

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