



ABS HI121H

Injection Molding

Description

High Stiffness

Application

Electric&Electronic Products, Miscellaneous Goods

Updated : 7-Jun-10

Properties	Test Condition	Test Method	Unit	Typical Value
hysical				
Specific Gravity		ASTM D792	-	1.04
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.4~0.7
Melt Flow Rate	220℃/10kg	ASTM D1238	g/10min	23
lechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm ²	520
Tensile Elongation, 3.2mm		ASTM D638		
@ Break	50mm/min		%	30
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	kg/cm ²	22,600
Flexural Strength, 3.2mm	15mm/min	ASTM D790	kg/cm ²	800
Flexural Modulus, 3.2mm	15mm/min	ASTM D790	kg/cm ²	28,000
IZOD Impact Strength, 6.4mm		ASTM D256		
(Notched)	23 °C		kg·cm/cm	20
-	-30°C		kg·cm/cm	8
IZOD Impact Strength, 3.2mm		ASTM D256		
(Notched)	23 ℃		kg·cm/cm	23
	- 30 ℃		kg∙cm/cm	8
Rockwell Hardness	R-Scale	ASTM D785	- 50	110
Thermal				
Heat Deflection Temperature, 6.4mm	I	ASTM D648		
(Unannealed)	18.6kg		Ĵ	86
	4.6kg		Ĵ	90
Vicat Softening Temperature		ASTM D1525		
	5kg , 50 ℃/h		Ĵ	94
Flammability		UL94		HB
Relative Temperature Index		UL 746B		
Electrical			Ĵ	60
Mechanical with Impact			Ĵ	60
Mechanical without Impact			°C	60

Values given should not be interpreted as specification and not be used for part or tool design.

All properties, except melt flow rate are measured on injection molulded specimens and after 48 hours storage at 23 °C, 50% relative humidty.

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Electrical

Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts	0
Surface Resistivity		IEC 60093	Ohm	
Volume Resistivity	23 ℃	ASTM D257	Ohm∙m	
Arc Resistance	23 ℃	ASTM D495	Ohm∙cm	6

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

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Processing Guide (Injection Molding)

Processing Parameters		Unit	Value		
Drying Temperature			Ĵ	80	
Drying Time	A		hrs	2~4	
Minimum Moisture Content			%	0.01	
Melt Temperature			°C	210 ~ 240	- 7
	Rear		°C	180 ~ 200	
Cylinder Temperature	Middle		°C	190 ~ 210	
	Front		°C	200 ~ 220	7
Nozzle Temperature	10		°C	200 ~ 230	
Mold Temperature			°C	40 ~ 70	_
Back Pressure			kg/cm ²	300 ~ 600	
Screw Speed			rpm	30 ~ 60	
ote) Back Pressure & Screw Speed are only me					_

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

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Updated : 7-Jun-10

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