ABS HI121

Injection Molding

Application

Injection Molding, Well Balanced Mechanical Properties

Feature

Electric&Electronic Products, Miscellaneous Goods

Properties

Physical	Method	Condition	Unit	Value
Specific Gravity	ASTM D792	-	-	1.04
Molding Shrinkage (Flow), 3.2mm	ASTM D955	-	%	0.4~0.7
Melt Flow Rate	ASTM D1238	220℃/10kg	g/10min	21

Mechanical	Method	Condition	Unit	Value
Tensile Strength, 3.2mm @ Yield	ASTM D638	50mm/min	kg/㎠	460
Tensile Elongation, 3.2mm @ Break	ASTM D638	50mm/min	%	40
Tensile Elongation, 3.2mm @ Yield	ASTM D638	50mm/min	%	>5
Tensile Modulus, 3.2mm	ASTM D638	1mm/min	kg/㎠	21,200
Flexural Strength, 3.2mm	ASTM D790	15mm/min	kg/㎠	740
Flexural Modulus, 3.2mm	ASTM D790	15mm/min	kg/㎠	25,000
IZOD Impact Strength, 6.4mm (Notched)	ASTM D256	23℃	kg·cm/cm	32
IZOD Impact Strength, 6.4mm	ASTM D256	-30℃	kg·cm/cm	13
IZOD Impact Strength, 3.2mm (Notched)	ASTM D256	23℃	kg·cm/cm	35
IZOD Impact Strength, 3.2mm	ASTM D256	-30℃	kg·cm/cm	13
Rockwell Hardness	ASTM D785	R-Scale	-	108

Thermal	Method	Condition	Unit	Value
Heat Deflection Temperature, 6.4mm (Unannealed)	ASTM D648	18.6kg	℃	87

Heat Deflection Temperature, 6.4mm	ASTM D648	18.6kg	℃	91
Vicat Softening Temperature	ASTM D1525	5kg,50℃/h	℃	93
RTI Electrical	UL 746B	-	℃	95
RTI Mechanical with Impact	UL 746B	-	℃	95
RTI Mechanical without Impact	UL 746B	-	℃	95

Electrical	Method	Condition	Unit	Value
Comparative Tracking Index(CTI)	IEC 60112	SolutionA	Volts	0
Arc Resistance	ASTM D495	23℃	Ohm·cm	6
Dielectric Strength, 1mm	ASTM D149	23℃	kV/mm	27
Volume Resistivity	ASTM D257	23℃	Ohm·cm	15