

HI121H

Description

HI121H is a widely used ABS product for injection molding, designed to have impact resistance.

Key Features

Impact Resistance, General Purpose

Application

Electrical/Electronic Products, Miscellaneous Goods

Properties	Condition	Method	Unit	HI121H
Physical				
Specific Gravity	23°C	ISO 1183		1.05
Mold Shrinkage	23°C, 3.2mm	ISO 294-4	%	0.4 ~ 0.7
Melt Flow Rate	220°C, 10kg	ISO 1133	g/10min	22
Mechanical				
Tensile Strength at Yield	23°C, 50mm/min, 4mm	ISO 527	MPa	46
Tensile Elongation at Break	23°C, 50mm/min, 4mm	ISO 527	%, (Min)	10
Flexural Strength	23°C, 2mm/min, 4mm	ISO 178	MPa	70
Flexural Modulus	23°C, 2mm/min, 4mm	ISO 178	MPa	2300
Izod Impact Strength	Notched, 4mm, 23°C	ISO 180/1A	kJ/m ²	20
Izod Impact Strength	Notched, 4mm, -30°C	ISO 180/1A	kJ/m ²	10
Charpy Impact Strength	Notched, 4mm, 23°C	ISO 179/1eA	kJ/m ²	20
Charpy Impact Strength	Notched, 4mm, -30°C	ISO 179/1eA	kJ/m ²	10
Rockwell Hardness	R-Scale	ISO 2039		110
Thermal				
Heat Deflection Temperature	Flatwise, 1.8MPa, 4mm, Unannealed	ISO 75	°C	79
Vicat Softening Temperature	50N, 50°C/h	ISO 306	°C	93

Note

Typical values can be used only for the purpose of selecting material, and there can be variation within normal tolerances for various colors.

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

All properties, except melt flow index are measured by injection molded specimens after 48 hours storage at 23°C, 50% relative humidity.

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