HP171

Description

HP171 is a general-purpose ABS product apply for injection molding, with medium flow, high gloss and high strength.

Key Features

Opaqueness, Hot Stamping, Paintability, High Gloss, Bright White, Dimensional Stability

Application

Router, Ear Phone, remote control, oxygen concentrator

Plant

China(Huizhou)

Properties	Condition	Method	Unit	HP171
Physical				
Melt Flow Index	220℃, 10kg	ASTM D1238	g/10min	24
Mechanical				
Tensile Strength at Yield	23℃, 50mm/min, 3.2mm	ASTM D638	MPa	49
Flexural Strength	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	69
Flexural Modulus	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	2570
Izod Impact Strength	Notched, 6.4mm, 23℃	ASTM D256	J/m	24
Rockwell Hardness	R-Scale	ASTM D785		108
Thermal				
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Unannealed	ASTM D648	℃	80

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℃, 50% relative humidity.

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Processing Guide (Injection Molding)

Processing Parameters	Unit	Value
Drying Temperature	℃	70~80
Drying Time	hrs	2~4
Injection Temperature	℃	200~240
Mold Temperature	℃	40~70
Screw Speed	rpm	30~60

Note

Injection Temperature & Screw Speed are only mentioned as general guidelines.
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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