

# ABS HG173

## Injection Molding

### Description

High Surface Gloss

### Application

Electric&Electronic Products

Properties	Test Condition	Test Method	Unit	Typical Value
<b>Physical</b>				
Specific Gravity		ASTM D792	-	1.05
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.4~0.7
Melt Flow Rate	220℃/10kg	ASTM D1238	g/10min	25
<b>Mechanical</b>				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm <sup>2</sup>	470
Tensile Elongation, 3.2mm		ASTM D638		
@ Yield	50mm/min		%	>5
@ Break	50mm/min		%	40
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	kg/cm <sup>2</sup>	24,000
Flexural Strength, 3.2mm	15mm/min	ASTM D790	kg/cm <sup>2</sup>	760
Flexural Modulus, 3.2mm	15mm/min	ASTM D790	kg/cm <sup>2</sup>	27,000
IZOD Impact Strength, 6.4mm (Notched)		ASTM D256		
	23℃		kg-cm/cm	24
	-30℃		kg-cm/cm	11
IZOD Impact Strength, 3.2mm (Notched)		ASTM D256		
	23℃		kg-cm/cm	25
	-30℃		kg-cm/cm	11
Rockwell Hardness	R-Scale	ASTM D785	-	110
<b>Thermal</b>				
Heat Deflection Temperature, 6.4mm (Unannealed)		ASTM D648		
	18.6kg		℃	85
	4.6kg		℃	89
Vicat Softening Temperature		ASTM D1525		
	5kg, 50℃/h		℃	94
Flammability		UL94		HB
Relative Temperature Index		UL 746B		
Electrical			℃	60
Mechanical with Impact			℃	60
Mechanical without Impact			℃	60

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

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 moulded specimens and after 48 hours storage at 23℃, 50% relative humidity.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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### Electrical

Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts	0
Surface Resistivity		IEC 60093	Ohm	
Volume Resistivity	23 °C	ASTM D257	Ohm·m	1.0E+15
Arc Resistance	23 °C	ASTM D495	Ohm·cm	6

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### Processing Guide (Injection Molding)

Processing Parameters		Unit	Value
Drying Temperature		°C	80
Drying Time		hrs	2 ~ 4
Minimum Moisture Content		%	0.01
Melt Temperature		°C	210 ~ 240
Cylinder Temperature	Rear	°C	180 ~ 200
	Middle	°C	190 ~ 210
	Front	°C	200 ~ 220
Nozzle Temperature		°C	200 ~ 230
Mold Temperature		°C	40 ~ 70
Back Pressure		kg/cm <sup>2</sup>	300 ~ 600
Screw Speed		rpm	30 ~ 60

Note) Back Pressure & 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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