

● Description

HJ730 is homo polypropylene resins for injection molding applications. This grade is produced by Samsung HIPP technology.

● Characteristics

Samsung homo HIPP grade offers superior rigidity as well as excellent melt flowability. This grade conforms with FDA regulation for food application (21 CFR177.1 520) and UL746B registered for flame retardancy level.

Characteristic features and benefits of these are summarized as:

- ▶ High rigidity → small deformation under load
- ▶ High surface hardness → high scratch resistance
- ▶ High heat deflection temperature → high temperature applications
- ▶ Superior melt flowability → no flow mark, easy mold filling
- ▶ High crystallization temperature → lower cycle time

Properties	units	HJ730 (HIPP)	HJ730 (general)	MF-1 (filled PP)	MF-2 (filled PP)
MI	g/dmin	20	20	20	20
Density	g/cm ³	0.91	0.91	0.97	1.05
Filler Content	%	-	-	10	20
Flexural Modulus	kgf/cm ²	21,000	16,500	18,500	20,500
HDT	°C	137	115	122	124

* Data shown above are representative values for reference purposes only, and not to be construed as specifications.

● Applications

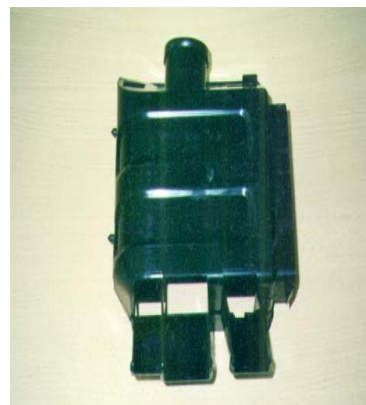
- ▶ Home appliances: Lid of rice cooker, reheatable Tray for M/W oven
- ▶ Base resin for auto compound: Heater case, trim, console box



☐ COFFEE MAKER ☐



☐ TOASTER ☐



☐ HEATER CASE ☐

● Physical Properties

Properties	Test Method	Units	HJ730
Melt Index	ASTM D1238	g/10min	20
Density	ASTM D1505	g/cm ³	0.91
Tensile Strength at Yield	ASTM D638	kg/cm ²	430
Elongation at Break		%	200
Flexural Modulus	ASTM D790	kg/cm ²	21,000
Izod Impact Strength	ASTM D256 (23°C)	kg.cm/cm	4.0
Rockwell Hardness	ASTM D785	R-Scale	105
Heat Distortion Temperature	ASTM D648	°C	137
Gloss	ASTM D523	%	90
Food Safety	FDA	-	YES
UL Approval	UL94		746B

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● **General Processing Guide**

▶ Typical Processing Conditions;

- Feeding zone	180 - 200℃
- Plasticating zone	190 - 210℃
- Metering zone	200 - 220℃
- Mold temperature	30 - 50℃
- Cooling Time	25 - 40 sec
- Injection Pressure	800 - 1200kg/cm ²
- Holding Pressure	600 - 1000kg/cm ²

The actual injection molding conditions should be adjusted by considering molding machine type, mold design and part size.

● **Other Information**

The information in this document can be used for reference only, not to be construed as specification. Customers are responsible for determine whether our product and information is suitable for their particular purpose and for the compliance with related law.

SAMSUNG ATOFINA assumes no obligation or liability for the information in this document.

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