

● 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

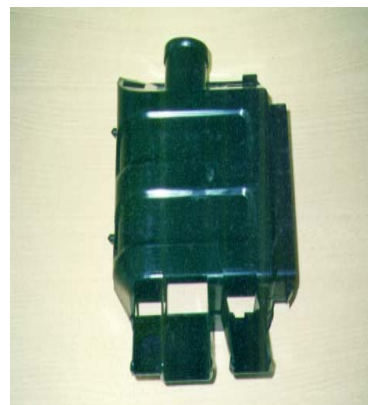
- ▶ Home appliances: Lid of rice cooker, reheatable Tray for M/W oven
- ▶ Base resin for auto compound: Heater case, trim, console box



☐ 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.

● **Contacts**

▶ **Sales & Marketing**

Tel) 82-2-772-6642~8 Fax) 82-2-772-6618

▶ **Product Information & Technical Services**

Tel) 82-41-660-6191~5 Fax) 82-41-660-6189

411-1, Dokgod Ri, Daesan Up, Seosan Si, Chung Nam, Korea 356-711