

SABIC® PP 5703P

POLYPROPYLENE HOMOPOLYMER FOR INJECTION MOLDING

DESCRIPTION

SABIC® PP 5703P is specially developed for producing rigid injection molded articles for general purpose applications. It gives consistent processability and high gloss at the products.

TYPICAL APPLICATIONS

SABIC® PP 5703P can be used for houseware articles, food containers, furniture and toys.

TYPICAL PROPERTY VALUES

Revision 20201211

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|--------------|
| POLYMER PROPERTIES ⁽¹⁾ | | | |
| Melt Flow Rate (MFR) | | | |
| at 230°C and 2.16kg | 12 | g/10 min | ASTM D1238 |
| Density | | | |
| at 23°C | 905 | kg/m ³ | ASTM D792 |
| MECHANICAL PROPERTIES ⁽²⁾ | | | |
| Tensile Properties | | | |
| Strength @ Yield | 34 | MPa | ASTM D638 |
| Elongation @ Yield | 12 | % | ASTM D638 |
| Flexural Modulus (1% Secant) | 1550 | MPa | ASTM D790 A |
| Izod Impact Strength | | | |
| notched, at 23°C | 30 | J/m | ASTM D256 |
| Rockwell Hardness, R-Scale | 102 | - | ASTM D785 |
| THERMAL PROPERTIES | | | |
| Vicat Softening Temperature | 154 | °C | ASTM D1525 |
| Heat deflection temperature | | | |
| at 455kPa | 95 | °C | ASTM D648 |

(1) Typical values, not to be construed as specific limits

(2) Based on injection molded specimens

PROCESSING CONDITIONS

Typical processing conditions for 5703P are:

Barrel temperature range: 200 - 250°C.

Mold Shrinkage: 1.2 - 2.5% depending on wall thickness and processing conditions.

Mold Temperature: Normally 15 - 40°C, up to 65°C for thick parts.

STORAGE AND HANDLING

Polypropylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PP resin within 6 months after delivery.



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