

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/m³	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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