



PP 5703P (Provisional Data Sheet)

PP Homo polymer for Injection Molding

Product Description

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

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

Typical data

Properties	Unit	Value ⁽¹⁾	ASTM Method
Resin Properties			
Melt Flow Rate @ 230°C & 2.16 kg load	g/10 min.	12	D 1238
Density @ 23°C	kg/m ³	905	D 792
Mechanical Properties ⁽²⁾			
Tensile Strength @ Yield	MPa	34	D 638
Tensile Elongation @ Yield	%	12	D 638
Flexural Modulus (1% Secant)	MPa	1550	D 790A
Notched Izod Impact Strength @ 23°C	J/m	30	D 256
Rockwell Hardness, R-Scale	-	102	D 785
Thermal Properties ⁽²⁾			
Vicat Softening Point	°C	154	D 1525B
Heat Deflection Temperature @ 455 KPa	°C	95	D 648

(1) Typical values; not to be construed as specification limits.

(2) Based on injection molded specimens.

Processing Conditions

Barrel temperature range: 200 - 225°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

Food Regulation

PP 5703P is suitable for food contact application. Detailed information is provided in the relevant Material Safety Data Sheet and for additional specific information please contact SABIC local representative for certificate.

Storage and Handling

PP resin should be stored to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't 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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