



# SABIC<sup>®</sup> PP 5780P

POLYPROPYLENE HOMOPOLYMER FOR INJECTION MOLDING

## DESCRIPTION

SABIC<sup>®</sup> PP 5780P is a PP homopolymer grade with narrow molecular weight distribution and formulated with slip agent. This grade is suitable for injection molding applications require good flow properties, low COF and good gloss.

## TYPICAL APPLICATIONS

SABIC<sup>®</sup> PP 5780P can be used for household articles, toys, thin-walled packaging, caps & closures items.

## TYPICAL PROPERTY VALUES

Revision 20190327

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230°C and 2.16kg	25	g/10 min	ASTM D1238
<b>Density</b>			
at 23°C	905	kg/m <sup>3</sup>	ASTM D792
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
<b>Tensile Properties</b>			
Strength @ Yield	36	MPa	ASTM D 638
Elongation @ Yield	11	%	ASTM D 638
Flexural Modulus (1% Secant)	1500	MPa	ASTM D790 A
<b>Izod Impact Strength</b>			
notched, at 23°C	30	J/m	ASTM D256
Rockwell Hardness, R-Scale	104	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
Vicat Softening Temperature	153	°C	ASTM D1525
<b>Heat deflection temperature</b>			
at 455kPa	96	°C	ASTM D648

(1) Based on injection molded specimens

## PROCESSING CONDITIONS

Typical processing conditions for 5780P 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.

## HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site <http://www.SABIC.com>. For additional specific information please contact SABIC local representative.

DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical / medical applications.



## 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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