

# SABIC® PP 579S

POLYPROPYLENE HOMOPOLYMER FOR INJECTION MOLDING

## DESCRIPTION

SABIC® PP 579S is a PP grade with narrow molecular weight distribution. This grade is formulated with antistatic and nucleating agents. It is typically used by our customers for producing thin-walled injection molding articles and it gives low warpage tendency, high stiffness & outstanding flow properties for excellent part filling.

## TYPICAL APPLICATIONS

SABIC® PP 579S can be used mainly for thin-walled applications, houseware, appliances, caps & closures.

## TYPICAL PROPERTY VALUES

Revision 20220721

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES <sup>(1)</sup></b>			
<b>Melt Flow Rate (MFR)</b>			
@ 230°C & 2.16kg load	47	g/10 min	ASTM D1238
<b>Density at 23°C</b>	905	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
<b>Tensile Properties</b>			
Strength @ Yield	35	MPa	ASTM D638
Elongation @ Yield	11	%	ASTM D638
<b>Flexural Modulus (1% Secant)</b>	1900	MPa	ASTM D790 A
<b>Notched Izod Impact Strength at 23°C</b>	20	J/m	ASTM D256
<b>Rockwell Hardness, R-Scale</b>	104	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Point</b>	152	°C	ASTM D1525
<b>Heat Deflection Temperature at 455kPa</b>	98	°C	ASTM D648

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

(2) Based on injection molded specimens

## PROCESSING CONDITIONS

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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