

# SABIC® PP 5707N

POLYPROPYLENE HOMOPOLYMER FOR INJECTION MOLDING

## DESCRIPTION

SABIC® PP 5707N is a PP homopolymer grade with antistatic and nucleated agents. It is suitable for producing injection molded applications with good flow properties, good dimensional stability, high stiffness and good clarity comparing to the regular PP homopolymer grades.

## TYPICAL APPLICATIONS

SABIC® PP 5707N can be used for housewares, thin-walled packaging, caps & closures.

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230°C and 2.16kg	24	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	35	MPa	ASTM D 638
Elongation @ Yield	10	%	ASTM D 638
<b>Flexural Modulus (1% Secant)</b>	1700	MPa	ASTM D790 A
<b>Izod Impact Strength</b>			
notched, at 23°C	33	J/m	ASTM D256
<b>Rockwell Hardness, R-Scale</b>	95	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>	150	°C	ASTM D1525
<b>Heat deflection temperature</b>			
at 455kPa	90	°C	ASTM D648

(1) Based on injection molded specimens

## PROCESSING CONDITIONS

Typical processing conditions for 5707N 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.