

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

Revision 20240202

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
at 230°C and 2.16kg	24	g/10 min	ASTM D1238
Density			
at 23°C	905	kg/m³	ASTM D792
MECHANICAL PROPERTIES ⁽²⁾			
Tensile Properties			
Strength @ Yield	37	MPa	ASTM D638
Elongation @ Yield	7	%	ASTM D638
Flexural Modulus (1% Secant)	1665	MPa	ASTM D790 A
Izod Impact Strength			
notched, at 23°C	28	J/m	ASTM D256
Rockwell Hardness, R-Scale	95	-	ASTM D785
THERMAL PROPERTIES			
Vicat Softening Temperature	155	°C	ASTM D1525
Heat deflection temperature			
at 455kPa	110	°C	ASTM D648

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

(2) 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.

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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