



**PP 5707N** (Provisional Data Sheet) PP Homo polymer **STIFFPACT** for Injection Molding

**Product Description**

PP 5707N is a reactor PP homopolymer grade with antistatic and nucleated agents. It is suitable for producing injection molded applications and gives consistent processability, good flow properties for excellent part filling, high stiffness and good CLARITY at the products. This grade allows for short cycle times.

**Typical Applications**

PP 5707N can be used for houseware, thin wall packaging, caps & closures and garden furniture items with good dimensional stability.

**Typical data**

Properties	Unit	Value <sup>(1)</sup>	ASTM Method
<b>Resin Properties</b>			
Melt Flow Rate @ 230°C & 2.16 kg load	g/10 min.	24	D 1238
Density @ 23°C	kg/m <sup>3</sup>	905	D 792
<b>Mechanical Properties <sup>(2)</sup></b>			
Tensile Strength @ Yield	MPa	35	D 638
Tensile Elongation @ Yield	%	10	D 638
Flexural Modulus (1% Secant)	MPa	1800	D 790A
Notched Izod Impact Strength @ 23°C	J/m	33	D 256
Rockwell Hardness, R-Scale	-	95	D 785
<b>Thermal Properties <sup>(2)</sup></b>			
Vicat Softening Point	°C	150	D 1525B
Heat Deflection Temperature @ 455 KPa	°C	90	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 5707N 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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