

# SABIC® PP 5707N

Polypropylene Homopolymer

SABIC Americas, Inc.

## Message:

Provisional - PP Homopolymer STIFFPACT for Injection Molding

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.

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Flow		
	Good Processability		
	High Clarity		
	High Stiffness		
	Homopolymer		
	Nucleated		
Uses	Caps		
	Closures		
	Household Goods		
	Packaging		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	0.905	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	24	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.2 to 2.5	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	102		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	35.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	10	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	1800	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	33	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525 <sup>2</sup>
Injection	Nominal Value	Unit	
Rear Temperature	200 to 225	°C	
Middle Temperature	200 to 225	°C	
Front Temperature	200 to 225	°C	
Mold Temperature	15.0 to 40.0	°C	
NOTE			
1.	23°C		
2.	Rate B (120°C/h)		

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