

# SABIC<sup>®</sup> PP 5770N

## POLYPROPYLENE HOMOPOLYMER FOR INJECTION MOLDING

### DESCRIPTION

SABIC<sup>®</sup> PP 5770N is a PP homopolymer grade with antistatic and nucleating agents. It is suitable for producing injection molded applications with outstanding flow properties, good dimensional stability, high stiffness, excellent organoleptic properties and good clarity comparing to the regular PP homopolymer grades.

SABIC<sup>®</sup> PP 5770N encompasses the following features: very high top load strength & down gauging potential; isotropy shrinkage performance (dimensional stability); high crystallization temperature and superior flow behavior (lower cycle time); easy mold filling for aesthetic & large items; clean product in combination of low / no odor & taste.

### TYPICAL APPLICATIONS

SABIC<sup>®</sup> PP 5770N can be used for housewares, thin wall packaging, caps & closures and compounding.

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230°C and 2.16 kg	70	g/10 min	ASTM D1238
<b>Density</b>			
at 23°C	903	kg/m <sup>3</sup>	ASTM D792
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
<b>Tensile Strength at Yield</b>	40	MPa	ASTM D638
<b>Tensile Elongation at Yield</b>	7	%	ASTM D638
<b>Flexural Modulus (1% Secant)</b>	1680	MPa	ASTM D790 A
<b>Flexural Modulus (1% Secant)</b>	1870	MPa	ASTM D790 B
<b>Izod Impact Strength</b>			
notched, at 23°C	30	J/m	ASTM D256
<b>Rockwell Hardness, R-Scale</b>	98	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>	150	°C	ASTM D1525
<b>Heat deflection temperature</b>			
at 455 kPa	108	°C	ASTM D648

(1) Based on injection molded specimens

### PROCESSING CONDITIONS

Barrel temperature range: 200 - 245°C

Mold Shrinkage: 1.2 - 2.0% depending on wall thickness and processing conditions.

Mold Temperature: Normally 15 - 40°C, up to 65°C for thick parts.