

SABIC® PP 5770N

POLYPROPYLENE HOMOPOLYMER FOR INJECTION MOLDING

DESCRIPTION

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

TYPICAL PROPERTY VALUES

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