



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

Revision 20181012

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.



HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

SABIC® PP 5770N is suitable for food contact application. Detailed information is provided in relevant documents / certificates and for additional specific information please contact SABIC local representative.

DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical / medical applications.

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.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.