

Revision 20210507

# SABIC® PP 5211P

## POLYPROPYLENE HOMOPOLYMER FOR FILM

#### **DESCRIPTION**

SABIC® PP 5211P is a non-formulated grade, specially developed for bi-axially oriented PP (BOPP) film extrusion with a very specific molecular structure providing ultimate properties required for the stenter film process.

Films produced using PP 5211P will exhibit:

-Easy process ability, Good thickness control -Superior optical properties -High tensile properties -Low residual ash -Film produced can be metalized

### **TYPICAL APPLICATIONS**

SABIC® PP 5211P can be used as core layer in co-extruded film and/or as base material for plain films used for stationary, dry food bags, synthetic paper and heat sealable packaging films.

# TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230°C and 2.16kg <sup>(1)</sup>	3.3	g/10 min	ASTM D1238
Density at 23°C <sup>(1)</sup>	905	kg/m <sup>3</sup>	ASTM D1505
MECHANICAL PROPERTIES			
Tensile Strength at Yield <sup>(2)</sup>	33	MPa	ASTM D638
Tensile Elongation at Yield	10	%	ISO 527-1/-2
Flexural Modulus (1% Secant)	1450	MPa	ASTM D790 A
Notched Izod Impact Strength at 23°C	35	J/m	ASTM D256
Rockwell Hardness, R-Scale	102	-	ASTM D785
THERMAL PROPERTIES			
Vicat Softening Point	154	°C	ASTM D1525
Heat Deflection Temperature at 455kPa	96	°C	ASTM D648

(1) Typical values; not to be construed as specification limits.

(2) Typical values; not to be construed as specification limits. Based on injection molded specimens

## **PROCESSING CONDITIONS**

Average extrusion temperature range may be kept at 240 - 250°C

#### 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.