

# SABIC® PP 5212P

## POLYPROPYLENE HOMOPOLYMER

### DESCRIPTION

PP 5212P is high stiffness PP Homopolymer 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 5212P will exhibit:

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

### TYPICAL APPLICATIONS

PP 5212P can be used as core layer in co-extruded film and/or as base material for plain films used for label film, stationary, dry food bags, synthetic paper and heat sealable packaging films.

### TYPICAL PROPERTY VALUES

Revision 20211207

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES<sup>(1)</sup></b>			
Melt Flow Rate (MFR)			
@ 230°C/2.16 kg	3	g/10 min	ASTM D1238
<b>Density</b>			
	905	kg/m <sup>3</sup>	ASTM D792
<b>MECHANICAL PROPERTIES<sup>(2)</sup></b>			
Tensile Strength at Yield	36	MPa	ASTM D638
Tensile Elongation at Yield	10	%	ASTM D638
Flexural Modulus (1% Secant)	1800	MPa	ASTM D790 A
Notched Izod Impact Strength at 23°C	46	J/m	ASTM D256
Rockwell Hardness, R-Scale	102	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
Vicat Softening Point	>154	°C	ASTM D1525
Heat Deflection Temperature at 455kPa	110	°C	ASTM D648
Crystallization Temperature (T <sub>c</sub> )	123	°C	ASTM D3418

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

(2) Based on injection molded specimens

### PROCESSING CONDITIONS

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

### HAZARDS AND SAFETY

PP 5212P is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

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.

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