

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

Revision 20210507

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230°C and 2.16kg ⁽¹⁾	3.3	g/10 min	ASTM D1238
Density at 23°C ⁽¹⁾	905	kg/m³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile Strength at Yield ⁽²⁾	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.

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CHEMISTRY THAT MATTERS™



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