

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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
@ 230°C/2.16 kg	3	g/10 min	ASTM D1238
Density	905	kg/m ³	ASTM D792
MECHANICAL PROPERTIES ⁽²⁾			
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
THERMAL PROPERTIES			
Vicat Softening Point	>154	°C	ASTM D1525
Heat Deflection Temperature at 455kPa	110	°C	ASTM D648
Crystallization Temperature (T_c)	123	°C	ASTM D3418

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

(2) Based on injection molded specimens

