

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

