

# SABIC® PP 506P

POLYPROPYLENE HOMOPOLYMER

## DESCRIPTION

SABIC® PP 506P is intended for producing low denier stretched tapes with the following features: Consistent processability; Good process ability at high line speeds and low deniers; Low tapes shrinkage; Low water carry over; Very good mechanical properties.

## TYPICAL APPLICATIONS

SABIC® PP 506P can be used for producing carpet backing, woven bags, cable fillers, geotextiles and concrete reinforcements.

## TYPICAL PROPERTY VALUES

Revision 20210507

| PROPERTIES                               | TYPICAL VALUES | UNITS             | TEST METHODS |
|--|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>                |                |                   |              |
| <b>Melt Flow Rate (MFR)</b>              |                |                   |              |
| at 230°C and 2.16kg                      | 4.8            | g/10 min          | ASTM D1238   |
| <b>Density</b>                           |                |                   |              |
| at 23°C                                  | 905            | kg/m <sup>3</sup> | ASTM D792    |
| <b>MECHANICAL PROPERTIES</b>             |                |                   |              |
| <b>Flexural Modulus (1% Secant)</b>      |                |                   |              |
|  | 1500           | MPa               | ASTM D790 A  |
| <b>Izod Impact Strength</b>              |                |                   |              |
| notched, at 23°C                         | 32             | J/m               | ASTM D256    |
| <b>Rockwell Hardness, R-Scale</b>        |                |                   |              |
|  | 100            | -                 | ASTM D785    |
| <b>FILM PROPERTIES</b>                   |                |                   |              |
| <b>Tensile Properties <sup>(1)</sup></b> |                |                   |              |
| stress at yield                          | 35             | MPa               | ASTM D638    |
| strain at yield                          | 12             | %                 | ASTM D638    |
| <b>THERMAL PROPERTIES</b>                |                |                   |              |
| <b>Vicat Softening Temperature</b>       |                |                   |              |
|  | 155            | °C                | ASTM D1525   |
| <b>Heat deflection temperature</b>       |                |                   |              |
| at 455kPa                                | 100            | °C                | ASTM D648    |

(1) Based on injection molded specimens.

## PROCESSING CONDITIONS

Typical processing conditions for 506P are:

Barrel temperature range: 235 - 250°C

Melt temperature: 250 - 260°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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