



# SABIC<sup>®</sup> PP 506P

POLYPROPYLENE HOMOPOLYMER

## DESCRIPTION

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

## TYPICAL PROPERTY VALUES

| PROPERTIES                               | TYPICAL VALUES | UNITS             | TEST METHODS |
|--|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>                |                |                   |              |
| <b>Melt Flow Rate</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