

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 20220721

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