

SABIC® PP 516A

POLYPROPYLENE HOMOPOLYMER

DESCRIPTION

SABIC® PP 516P is a PP homopolymer grade specially designed for fiber extrusion applications with the following features: Consistent processability; Good thread line stability; Good color consistency; Good gas fading resistance.

TYPICAL APPLICATIONS

SABIC® PP 516A is suitable for extrusion of staple fibers used in geotextile applications with superior tensile properties.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate 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 516A are:

Average extrusion temperature range may be kept at 235 - 250°C.