

# SABIC® PP 518A

## POLYPROPYLENE HOMOPOLYMER

### DESCRIPTION

SABIC® PP 518A is a PP homopolymer grade with broad molecular weight distribution intended for fiber extrusion applications.

SABIC® PP 518A has the following features: Consistent processability; Good thread line stability; Good gas fading resistance.

### TYPICAL APPLICATIONS

SABIC® PP 518A is particularly suitable for producing bulk continuous filament (BCF), continuous filament (CF) and staple fiber yarns for carpet pile and upholstery.

### TYPICAL PROPERTY VALUES

Revision 20211203

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Melt Flow Rate (MFR)			
at 230°C and 2.16kg	25	g/10 min	ASTM D1238
Density			
at 23°C	905	kg/m <sup>3</sup>	ASTM D792
<b>MECHANICAL PROPERTIES</b>			
Flexural Modulus (1% Secant)	1550	MPa	ASTM D790 A
Izod Impact Strength			
notched, at 23°C	30	J/m	ASTM D256
Rockwell Hardness, R-Scale	100	-	ASTM D785
<b>FILM PROPERTIES</b>			
Tensile Properties <sup>(1)</sup>			
stress at yield	32	MPa	ASTM D638
strain at yield	12	%	ASTM D638
<b>THERMAL PROPERTIES</b>			
Vicat Softening Temperature	152	°C	ASTM D1525
Heat deflection temperature			
at 455kPa	118	°C	ASTM D648

(1) Based on injection molded specimens.

### PROCESSING CONDITIONS

Typical processing conditions for 518A are:

Average extrusion temperature range may be kept at 210 - 250°C.

Lower processing temperature are possible with this material and will result in better long term heat aging.

### 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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