

SABIC® PP 518P

POLYPROPYLENE HOMOPOLYMER

DESCRIPTION

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

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

TYPICAL APPLICATIONS

SABIC® PP 518P 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 20201211

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230°C and 2.16kg	25	g/10 min	ASTM D1238
Density			
at 23°C	905	kg/m³	ASTM D792
MECHANICAL PROPERTIES			
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
FILM PROPERTIES			
Tensile Properties ⁽¹⁾			
stress at yield	32	MPa	ASTM D638
strain at yield	12	%	ASTM D638
THERMAL PROPERTIES			
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 518P 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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CHEMISTRY THAT MATTERS™



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