



## PP 518A (Provisional Data Sheet)

PP Homopolymer for fiber applications

### Product Description

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

PP 518A has following features:

- Consistent processability
- Good thread line stability
- Good gas fading resistance

### Typical Applications

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

### Typical data

Properties	Unit	Value <sup>(1)</sup>	ASTM Method
<b>Resin Properties</b>			
Melt Flow Rate @ 230°C & 2.16 kg load	g/10 min.	25	D 1238
Density @ 23°C	kg/m <sup>3</sup>	905	D 792
<b>Mechanical Properties <sup>(2)</sup></b>			
Tensile Strength @ Yield	MPa	32	D 638
Tensile Elongation @ Yield	%	12	D 638
Flexural Modulus (1% Secant)	MPa	1550	D 790A
Notched Izod Impact Strength @ 23°C	J/m	30	D 256
Rockwell Hardness, R-Scale	-	100	D 785
<b>Thermal Properties<sup>(2)</sup></b>			
Vicat Softening Point	°C	152	D 1525B
Heat Deflection Temperature @ 455 KPa	°C	118	D 648

(1) Typical values; not to be construed as specification limits.

(2) Based on injection molded specimens.

### Processing Conditions

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.

### Food Regulation

PP 518A is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

## **Storage and Handling**

PP resin should be stored to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't 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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