

# SABIC® PP 518A

Polypropylene Homopolymer

SABIC Americas, Inc.

Message:

Provisional - PP Homopolymer for fiber applications

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.

General Information			
Features	Homopolymer		
	Resistance to gas fading		
	Workability, good		
	Wide molecular weight distribution		
	Compliance of Food Exposure		
Uses	Filament		
	Fiber		
	Line		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	0.905	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	32.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	12	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	1550	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method


Notched Izod Impact (23°C, Injection Molded)	30	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	118	°C	ASTM D648
Vicat Softening Temperature	152	°C	ASTM D1525 <sup>2</sup>
Extrusion	Nominal Value	Unit	
Melt Temperature	210 - 250	°C	
Extrusion instructions			
Lower processing temperature are possible with this material and will result in better long term heat aging.			
NOTE			
1.	23°C		
2.	标准 B (120°C/h)		

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