

# SABIC® PP 523P

Polypropylene Homopolymer

SABIC Americas, Inc.

## Message:

Provisional - PP Homopolymer for bi-axially oriented film

PP 523P is a non formulated grade, specially developed for bi-axially oriented PP (BOPP) film extrusion with a very specific molecular structure providing ultimate properties required for the stenter film process. PP523P is suitable for metallizable film, both as monolayer and in coextruded structures.

Films produced using PP 523P will exhibit:

- Consistent processability
- Very good film profile
- Excellent optical properties
- High tensile properties
- Low residual ash

Film produced can be metalized

Typical Applications

PP 523P can be used as core layer in co-extruded film and/or as base material for plain films used for stationary, dry food bags, synthetic paper and heat sealable packaging films.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	Homopolymer		
	Metallizable		
	Opticals		
Uses	Bags		
	Bi-axially Oriented Film		
	Film		
	Packaging		
Forms	Pellets		
Processing Method	Bi-axially Oriented Film		
	Coextrusion		
	Film Extrusion		
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)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	35.0	MPa	ASTM D638

Tensile Elongation (Yield, Injection Molded)	12	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	1500	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	35	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	94.0	°C	ASTM D648
Vicat Softening Temperature	156	°C	ASTM D1525 <sup>2</sup>
Extrusion	Nominal Value	Unit	
Melt Temperature	245 to 255	°C	
NOTE			
1.	23°C		
2.	Rate B (120°C/h)		

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#### Recommended distributors for this material

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