

# SABIC® PP 521P

Polypropylene Homopolymer  
Saudi Basic Industries Corporation (SABIC)

Message:

PP Homopolymer for Bi-axially oriented film  
PP 521P 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.  
Films produced using PP 521P will exhibit:  
Consistent processability  
Excellent optical properties  
High tensile properties  
Low residual ash  
Film produced can be metalized  
Typical Applications  
PP 521P 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	Electroplating Optical Homopolymer Workability, good Compliance of Food Exposure
Uses	Bi-axially Oriented Film Packaging Films Bags
Forms	Particle
Processing Method	Bi-axially Oriented Film Film extrusion Co-extrusion 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)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	35.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	10	%	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)	96.0	°C	ASTM D648
Vicat Softening Temperature	155	°C	ASTM D1525 <sup>2</sup>
Extrusion	Nominal Value	Unit	
Melt Temperature	245 - 255	°C	
NOTE			
1.	23°C		
2.	标准 B (120°C/h)		

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#### Recommended distributors for this material

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