



PP 523P (Provisional Data Sheet)

PP Homopolymer for bi-axially oriented film

Product Description

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 co-extruded 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.

Typical data

Properties	Unit	Value ⁽¹⁾	ASTM Method
Resin Properties			
Melt Flow Rate @ 230°C & 2.16 kg load	g/10 min.	3.0	D 1238
Density @ 23°C	kg/m ³	905	D 792
Mechanical Properties ⁽²⁾			
Tensile Strength @ Yield	MPa	35	D 638
Tensile Elongation @ Yield	%	12	D 638
Flexural Modulus (1% Secant)	MPa	1500	D 790A
Notched Izod Impact Strength @ 23°C	J/m	35	D 256
Rockwell Hardness, R-Scale	-	105	D 785
Thermal Properties ⁽²⁾			
Vicat Softening Point	°C	156	D 1525B
Heat Deflection Temperature @ 455 KPa	°C	94	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 245 - 255°C.

Food Regulation

PP 523P is suitable for food contact application. Detailed information is provided in the relevant Material Safety Data Sheet 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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