

**PRODUCT NAME: PP 500P**
**POLYPROPYLENE HOMOPOLYMER**
**Supplier: SABIC®**
**Product Identification & Description**

SABIC® PP 500P is specially developed for producing stretched tapes with following features. • Consistent processability • Easy orientation • Low water carry over • Good mechanical properties.

Anti-static agent / nucleating agent / Gas fading stabilized

**Typical Applications**

SABIC® PP 500P can be used for producing woven bags, flexible intermediate bulk containers, ropes & twines, carpet backing, geotextiles and concrete reinforcements.

**Physical Properties**

Property	Typical Values	Units	Test Methods
Melt Flow Rate (MFR) @ 230 °C / 2.16 kg	3	g/10 min	ASTM D1238
Density at 23 °C	905	kg/m <sup>3</sup>	ASTM D1505
Molecular Weight Distribution	Broad	-	-
Isotacticity	Medium	-	-

**Mechanical Properties**

Property	Typical Values	Units	Test Methods
Flexural Modulus (1% Secant)	1520	MPa	ASTM D790 (Procedure A)
Notched Izod Impact Strength @ 23 °C	22	J/m	ASTM D256
Rockwell Hardness, R-Scale	104	R	ASTM D785
Stress at Yield	35	MPa	ASTM D638
Strain at Yield	11	%	ASTM D638

**Thermal Properties**

Property	Typical Values	Units	Test Methods
Heat Deflection Temperature (HDT/B) @ 0.45 MPa	85	°C	ISO 75
Heat Deflection Temperature (HDT/A) @ 1.80 MPa	55	°C	ISO 75
Vicat Softening Temperature (VST/A) @ 10 N	152	°C	ISO 306
Vicat Softening Temperature (VST/B) @ 10 N	88	°C	ISO 306

## Processing Conditions

- Typical processing conditions for 500P are: Barrel temperature range: 235 - 250°C

## Storage and Handling

Polypropylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not 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.

## DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties. It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes.

The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us. Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

**Revision:** This datasheet replaces all previous versions. **Revision Date:** Mar 2026