

SABIC® PP 500P

POLYPROPYLENE HOMOPOLYMER
REGION ASIA

DESCRIPTION

SABIC® PP 500P is a medium flow, multipurpose grade for extrusion and injection molding applications.

TYPICAL APPLICATIONS

If applied for extrusion 500P shows an excellent stretch ability and is therefore suitable for tapes and strapping, high tenacity yarns and carpet backing. It can also be used in ropes and twines, woven bags, flexible intermediate bulk containers, geotextiles and concrete reinforcements.

For thermoforming it shows a unique balance between transparency, impact resistance and thickness uniformity.

500P is also suitable for production of injection molded articles e.g. caps and closures and house ware products, where this grade shows a high stiffness, combined with a fair impact resistance and very good surface hardness.

TYPICAL PROPERTY VALUES

Revision 20211203

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230° C and 2.16kg	3	g/10 min	ASTM D1238
Density			
at 23° C	905	kg/m ³	ASTM D638
MECHANICAL PROPERTIES			
Flexural Modulus (1% Secant)	1500	MPa	ASTM D790 A
Izod Impact Strength			
notched, at 23° C	25	J/m	ASTM D256
Rockwell Hardness, R-Scale	102	-	ASTM D785
FILM PROPERTIES			
Tensile Properties ⁽¹⁾			
stress at yield	35	MPa	ASTM D638
strain at yield	10	%	ASTM D638
THERMAL PROPERTIES			
Vicat Softening Temperature	152	°C	ASTM D1525
Heat deflection temperature ⁽²⁾			
at 455kPa	100	°C	ASTM D648

(1) Based on injection molded specimens.

(2) Flat wise (testbar 80*10*4mm)

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

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.