

## SABIC® PP 500P

### PP homopolymer for Fibre, filament and tape extrusion

#### Description:

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

#### Application:

If applied for extrusion this grade shows an excellent stretch ability and is therefore suitable for tapes and strapping, high tenacity yarns and carpet backing. For thermoforming it shows a unique balance between transparency, impact resistance and thickness uniformity. SABIC PP 500P is suitable for production of injection moulded 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.

#### Health, Safety and Food Contact regulations:

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site <http://www.SABIC-europe.com>

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

This grade material is UL registered under File E111275 ([www.ul.com](http://www.ul.com))

#### Typical values

Revision 20110418

Properties	Unit (Si)	Values	Test methods
<b>Polymer properties</b>			
<b>Melt flow rate (MFR)</b> at 230 °C and 2.16 kg	g/10 min	<b>3.1</b>	ISO 1133
<b>Density</b>	kg/m <sup>3</sup>	<b>905</b>	ISO 1183
<b>Molecular Weight Distribution</b>	-	<b>Broad</b>	SABIC method
<b>Isotacticity</b>	-	<b>Medium</b>	SABIC method
<b>Formulation</b>			
<b>Anti block agent</b>	-	<b>No</b>	SABIC method
<b>Slip agent</b>	-	<b>No</b>	SABIC method
<b>Anti static agent</b>	-	<b>No</b>	SABIC method
<b>Nucleating agent</b>	-	<b>No</b>	SABIC method
<b>Gas fading stabilized</b>	-	<b>No</b>	SABIC method
<b>Mechanical properties</b>			
<b>Tensile test</b>			ISO 527
stress at yield	MPa	<b>41</b>	
stress at break	MPa	<b>36</b>	
strain at break	%	<b>600</b>	
<b>Flexural test</b>			ASTM D 790
Flexural modulus	MPa	<b>1550</b>	
<b>Thermal properties</b>			
<b>Vicat softening temperature</b>			
at 10 N (VST/A)	°C	<b>153</b>	ISO 306/A
at 50 N (VST/B)	°C	<b>79</b>	ISO 306/B

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**Quality:**

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO9001.

**Storage and handling:**

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and /or high humidity as this could well speed up alteration and consequently loss of quality of the material and /or its packaging. Keep material completely dry for good processing.

**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.

SABIC Europe as referred to herein means any legal entity belonging to the SABIC Europe group of companies.