



## SABIC® PP 621P

### PP random copolymer for Cast film

#### Description:

SABIC®PP 621P is a newly designed random copolymer polypropylene particularly for cast film applications with high clarity. Products produced out of SABIC® PP 621P have a high clarity, excellent sealing performance and high puncture resistance. The molecular structure of this grade is tailored for high performance processing. SABIC® PP 621P does not contain anti-block and slip agent. A grade with anti-block and slip agent is available as SABIC® PP 622L.

#### Applications:

SABIC PP 621P is typically used in applications like food packaging, lamination film, stationary film, textile packaging, flower packaging, and hygiene packaging.

SABIC®PP 621P is also a partner resin of LLDPE for power stretch film to which high holding force is required in order to assure good pallet stability. Specific applications are: sparkling beverage, building & construction materials and in general unitized heavy goods. SABIC®PP 621P has a good rheological matching with LLDPE which result in an easy process-ability (see graph on second page).

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

SABIC®PP 621P has a Food Contact Declaration. 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.

IMDS 80775790

#### Typical values

Revision 20140508

Properties	Unit (Si)	Values	Test methods
<b>Polymer properties</b>			
<b>Melt flow rate (MFR)</b> at 230 °C and 5 kg	g/10 min	<b>8.0</b>	ASTM D 1238
<b>Density</b>	kg/m³	<b>905</b>	ASTM D 792
<b>Molecular Weight Distribution</b>	-	<b>Narrow</b>	-
<b>Formulation</b>			
<b>Anti block agent</b>	-	<b>No</b>	-
<b>Slip agent</b>	-	<b>No</b>	-
<b>Mechanical properties</b>			
<b>Tensile test</b>			ASTM D 638
stress at yield <sup>1)</sup>	MPa	<b>26</b>	
strain at yield <sup>1)</sup>	%	<b>14</b>	
secant modulus at 1% elongation <sup>2)</sup>	MPa	<b>900</b>	
<b>Optical properties</b>			
<b>Haze</b> <sup>3)</sup>	%	<b>&lt; 0.9</b>	ASTM D 1003
<b>Thermal properties</b>			
<b>Vicat softening temperature</b> <sup>4)</sup>			ASTM D 1525
at 10 N (VST/A)	°C	<b>128</b>	
at 50 N (VST/B)	°C	<b>63</b>	

1) Speed of testing: 50 mm/min

2) Speed of testing: 1 mm/min

3) Determined at film of 25 µm

4) Temperature rate: 120°C/h



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