



## SABIC® PP PHC27

### PP block copolymer for Injection moulding

**Description:** This grade combines very high impact resistance, also at low temperatures, with a good stiffness and offers very good flow properties. Due to its narrow molecular weight distribution and very low tendency to warp, it is highly suitable for injection moulding of crates & boxes, suitcase shells and automotive parts.

#### 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.

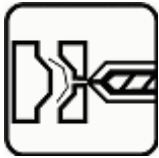
This grade material is UL registered under File E111275 ([www.ul.com](http://www.ul.com)) / IMDS 80775790

#### Typical values

Revision 20140109

Properties	Unit (Si)	Values	Test methods
<b>Polymer properties</b>			
<b>Melt flow rate (MFR)</b> at 230 °C and 2.16 kg	dg/min	<b>14</b>	ISO 1133
<b>Density</b>	kg/m <sup>3</sup>	<b>905</b>	ISO 1183
<b>Formulation</b>			
<b>UV stabilized</b>	-	<b>No</b>	-
<b>Anti static agent</b>	-	<b>No</b>	-
<b>Nucleating agent</b>	-	<b>No</b>	-
<b>Mechanical properties</b>			
<b>Tensile test</b>			ISO 527-2 1A
stress at yield <sup>1)</sup>	MPa	<b>21</b>	
strain at yield <sup>1)</sup>	%	<b>6</b>	
tensile modulus <sup>2)</sup>	MPa	<b>1000</b>	
<b>Izod impact notched</b>			ISO 180/1A
at 23 °C	kJ/m <sup>2</sup>	<b>No Break</b>	
at 0 °C	kJ/m <sup>2</sup>	<b>13</b>	
at -20 °C	kJ/m <sup>2</sup>	<b>9</b>	
<b>Charpy impact notched</b>			ISO 179/1eA
at 23 °C	kJ/m <sup>2</sup>	<b>60</b>	
at 0 °C	kJ/m <sup>2</sup>	<b>15</b>	
at -20 °C	kJ/m <sup>2</sup>	<b>8</b>	
<b>Charpy impact unnotched</b>			ISO 179/1eU
at 23 °C	kJ/m <sup>2</sup>	<b>No Break</b>	
<b>Hardness Shore D</b>	-	<b>60</b>	ISO 868
<b>Thermal properties</b>			
<b>Heat deflection temperature</b> <sup>3)</sup>			ISO 75
at 1.80 MPa (HDT/A)	°C	<b>50</b>	
at 0.45 MPa (HDT/B)	°C	<b>80</b>	
<b>Vicat softening temperature</b> <sup>4)</sup>			ISO 306
at 10 N (VST/A)	°C	<b>145</b>	
at 50 N (VST/B)	°C	<b>65</b>	

- 1) Speed of testing: 50 mm/min
- 2) Speed of testing: 1 mm/min
- 3) Flat wise ( testbar 80\*10\*4mm)
- 4) Temperature rate: 120°C/h



## SABIC® PP PHC27

### PP block copolymer for Injection moulding

**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.