

# SABIC® PP 83EK10

## PP block copolymer for Sheet extrusion

### Description:

This grade combines a very high impact strength, even at low temperatures, with a high stiffness and low flow properties. It is used for extrusion of flat sheets, corrugated board and corrugated pipes.

### 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

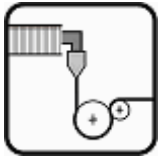
Revision 20140109

Properties	Unit (Si)	Values	Test methods
<b>Polymer properties</b>			
<b>Melt flow rate (MFR)</b> at 230 °C and 2.16 kg	g/10 min	<b>1.2</b>	ASTM D 1238
<b>Density</b>	kg/m <sup>3</sup>	<b>905</b>	ASTM D 792
<b>Formulation</b>			
<b>Anti static agent</b>	-	<b>No</b>	-
<b>Nucleating agent</b>	-	<b>Yes</b>	-
<b>Mechanical properties</b>			
<b>Tensile test</b>			ASTM D 638
stress at yield <sup>1)</sup>	MPa	<b>23</b>	
strain at yield <sup>1)</sup>	%	<b>6</b>	
secant modulus at 1% elongation <sup>2)</sup>	MPa	<b>1250</b>	
<b>Izod impact notched</b>			ASTM D 256A
at 23 °C	J/m	<b>No Break</b>	
at 0 °C	J/m	<b>No Break</b>	
at -20 °C	J/m	<b>130</b>	
<b>Rockwell hardness</b>			ASTM D 785
R-scale	-	<b>80</b>	
<b>Thermal properties</b>			
<b>Heat deflection temperature</b>			ASTM D 648
at 1.80 MPa (HDT/A)	°C	<b>60</b>	
at 0.45 MPa (HDT/B)	°C	<b>90</b>	
<b>Vicat softening temperature</b> <sup>3)</sup>			ASTM D 1525
at 10 N (VST/A)	°C	<b>148</b>	
at 50 N (VST/B)	°C	<b>68</b>	

1) Speed of testing: 50 mm/min

2) Speed of testing: 5 mm/min

3) 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.