



# SABIC® PP 83EK10

## PP block copolymer for Sheet extrusion

### Description:

This grade has low flow properties and a very high impact resistance, even at low temperatures. This grade has furthermore an exceptional high stiffness. It is used for flat sheets, corrugated board and flexible pipe.

### 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>

### Typical values

Revision 20080327

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>	ISO 1133
<b>Density</b>	kg/m <sup>3</sup>	<b>905</b>	ISO 1183
<b>Mechanical properties</b>			
<b>Tensile test</b>			ISO 527
stress at yield	MPa	<b>28</b>	
stress at break	MPa	<b>30</b>	
strain at break	%	<b>500</b>	
<b>Flexural test</b>			ASTM D 790
Flexural modulus	MPa	<b>1300</b>	
<b>Izod impact notched</b>			ISO 180/4A
at 23 °C	kJ/m <sup>2</sup>	<b>No Break</b>	
at 0 °C	kJ/m <sup>2</sup>	<b>25</b>	
at -20 °C	kJ/m <sup>2</sup>	<b>9.0</b>	
<b>Charpy impact notched</b>			ISO 179
at 23 °C	kJ/m <sup>2</sup>	<b>40</b>	
at 0 °C	kJ/m <sup>2</sup>	<b>25</b>	
at -20 °C	kJ/m <sup>2</sup>	<b>8.0</b>	
<b>Hardness Shore D</b>	-	<b>68</b>	ISO 868
<b>Thermal properties</b>			
<b>Heat deflection temperature</b>			
at 1.80 MPa (HDT/A)	°C	<b>50</b>	ISO 75/A
at 0.45 MPa (HDT/B)	°C	<b>85</b>	ISO 75/B
<b>Vicat softening temperature</b>			
at 10 N (VST/A)	°C	<b>147</b>	ISO 306/A
at 50 N (VST/B)	°C	<b>68</b>	ISO 306/B

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