



# SABIC<sup>®</sup> PP 83EK10

PP IMPACT COPOLYMER

## DESCRIPTION

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

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230 °C and 2.16 kg	1.2	dg/min	ISO 1133
<b>Density</b>	905	kg/m <sup>3</sup>	ASTM D1505
<b>FORMULATION</b>			
Anti static agent	☐	-	-
Nucleating agent	☑	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield	23	MPa	ISO 527-2 1A
tensile modulus <sup>(1)</sup>	1250	MPa	ISO 527-2 1A
strain at yield <sup>(2)</sup>	5	%	ISO 527-2 1A
<b>Izod impact notched</b>			
at -20 °C	12	kJ/m <sup>2</sup>	ISO 180/1A
<b>Izod impact notched</b>			
at 23 °C	No Break	kJ/m <sup>2</sup>	ISO 180/1A
<b>Charpy Impact Strength Notched</b>			
at -20 °C	10	kJ/m <sup>2</sup>	ISO 179/1eA
at 23 °C	80	kJ/m <sup>2</sup>	ISO 179/1eA
at 0 °C	60	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Charpy impact unnotched</b>			
at 23 °C	No Break	kJ/m <sup>2</sup>	ISO 179/1eU
<b>Hardness Shore D</b>	63	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature <sup>(3)</sup></b>			
at 0.45 MPa (HDT/B)	85	°C	ISO 75
at 1.80 MPa (HDT/A)	55	°C	ISO 75
<b>Vicat Softening Temperature <sup>(4)</sup></b>			
at 10 N (VST/A)	148	°C	ISO 306
at 50 N (VST/B)	68	°C	ISO 306



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

## QUALITY

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

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