



## SABIC® PP 108MF10

### PP block copolymer for Injection moulding

#### Description:

SABIC® PP 108MF10 is a super high impact copolymer exhibits an unmatched cold impact resistance, high flow and excellent paint adhesion characteristics. This combination of properties makes this grade particularly suitable for the bumpers of future generation cars. This grade is also available in a UV-stabilized version. SABIC® PP 108MF10 is a designated automotive grade.

IMDS ID: 7172624

#### Typical values

Revision 20061124

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>10</b>	ISO 1133
<b>Density</b>	kg/m <sup>3</sup>	<b>905</b>	ISO 1183 ASTM D 696
<b>Coeff. of linear thermal expansion</b> 1) 23 °C to 80 °C	µm/mK	-	
-30 °C to 30 °C	µm/mK	<b>120</b>	
<b>Mould shrinkage</b> 1) 24 hours after injection moulding	%	<b>1.5</b>	SABIC method
<b>Mechanical properties</b> 1)			
<b>Tensile test</b> 2)			ISO 527
stress at yield	MPa	<b>19</b>	
stress at break	MPa	<b>18</b>	
strain at break	%	<b>500</b>	
<b>Flexural test</b> 3)			ASTM D 790
Flexural modulus	MPa	<b>950</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>No Break</b>	
at -20 °C	kJ/m <sup>2</sup>	<b>10</b>	
<b>Charpy impact notched</b> 4)			ISO 179/1eA
at 23 °C	kJ/m <sup>2</sup>	<b>No Break</b>	
<b>Charpy impact unnotched</b>			ISO 179/1eU
at -40 °C	kJ/m <sup>2</sup>	<b>No Break</b>	
<b>Hardness Shore D</b>	-	<b>62</b>	ISO 868
<b>Thermal properties</b> 1)			
<b>Heat deflection temperature</b> at 0.45 MPa (HDT/B)	°C	<b>80</b>	ISO 75/B
<b>Vicat softening temperature</b> at 10 N (VST/A)	°C	<b>145</b>	ISO 306/A

1) All measurements on injection molded samples.

2) Speed of testing: 50 mm/min; Specimen ISO 527-5, 3.2 mm

3) 3-point loading

4) U-shaped notch; N.B.: No Break

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