



## SABIC® PP 108MF10

### PP super high impact for Automotive injection moulding

#### Description:

SABIC® PP 108MF10 is a super high impact copolymer which exhibits an unmatched cold impact resistance, high flow and excellent paint adhesion characteristics. Because of this unique and well balanced property profile our customers commonly use this material for painted car bumpers.

SABIC® PP 108MF10 is a designated automotive grade.

IMDS ID: 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>10</b>	ASTM D 1238
<b>Density</b>	kg/m <sup>3</sup>	<b>905</b>	ASTM D 792 SABIC method
<b>Mould shrinkage</b> <sup>1)</sup> 24 hours after injection moulding	%	<b>1.5</b>	
<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>2)</sup>	MPa	<b>19</b>	
strain at yield <sup>2)</sup>	%	<b>8</b>	
secant modulus at 1% elongation <sup>3)</sup>	MPa	<b>1000</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>No Break</b>	
<b>Thermal properties</b>			
<b>Vicat softening temperature</b> <sup>4)</sup>			ASTM D 1525
at 10 N (VST/A)	°C	<b>130</b>	
at 50 N (VST/B)	°C	<b>50</b>	

1) All measurements on injection molded samples.

2) Speed of testing: 50 mm/min

3) Speed of testing: 5 mm/min

4) 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.

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