

# SABIC® PP 86MF97

PP SUPER HIGH IMPACT

## DESCRIPTION

SABIC® PP 86MF97 is a grade which is characterised by an optimum combination of stiffness, impact resistance and flow. It is highly UV-stabilised, and therefore commonly used for exterior applications such as car bumpers.

SABIC® PP 86MF97 is a designated automotive grade.

IMDS ID: 80775790

## TYPICAL PROPERTY VALUES

Revision 20180807

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	4.6	dg/min	ISO 1133
<b>Density</b>	905	kg/m <sup>3</sup>	ASTM D1505
<b>Mould shrinkage <sup>(1)</sup></b>			
24 hours after injection moulding	1.6	%	SABIC method
<b>FORMULATION</b>			
<b>UV stabilized</b>	<input checked="" type="checkbox"/>	-	-
<b>Anti static agent</b>	<input type="checkbox"/>	-	-
<b>Nucleating agent</b>	<input type="checkbox"/>	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield	22	MPa	ISO 527-2 1A
strain at yield <sup>(2)</sup>	6	%	ISO 527-2 1A
tensile modulus <sup>(3)</sup>	1000	MPa	ISO 527-2 1A
<b>Izod impact notched</b>			
at 23 °C	No Break	kJ/m <sup>2</sup>	ISO 180/1A
at 0 °C	30	kJ/m <sup>2</sup>	ISO 180/1A
at -20 °C	8	kJ/m <sup>2</sup>	ISO 180/1A
<b>Charpy Impact Strength Notched</b>			
at 23 °C	No Break	kJ/m <sup>2</sup>	ISO 179/1eA
at 23 °C	No Break	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>	60	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature <sup>(4)</sup></b>			
at 10 N (VST/A)	143	°C	ISO 306
at 50 N (VST/B)	62	°C	ISO 306

- (1) All measurements on injection molded samples.
- (2) Speed of testing: 50 mm/min
- (3) Speed of testing: 1 mm/min
- (4) Temperature rate: 120°C/h

## 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.

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