



SABIC® PP 86MF97

PP super high impact for Automotive injection moulding

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 values

Revision 20140109

Properties	Unit (Si)	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 230 °C and 2.16 kg	dg/min	4.6	ISO 1133
Density	kg/m ³	905	ISO 1183
Mould shrinkage ¹⁾ 24 hours after injection moulding	%	1.6	SABIC method
Formulation			
UV stabilized	-	Yes	-
Anti static agent	-	No	-
Nucleating agent	-	No	-
Mechanical properties			
Tensile test			ISO 527-2 1A
stress at yield ²⁾	MPa	22	
strain at yield ²⁾	%	6	
tensile modulus ³⁾	MPa	1000	
Izod impact notched			ISO 180/1A
at 23 °C	kJ/m ²	No Break	
at 0 °C	kJ/m ²	30	
at -20 °C	kJ/m ²	8	
Charpy impact notched			ISO 179/1eA
at 23 °C	kJ/m ²	No Break	
at 0 °C	kJ/m ²	No Break	
Charpy impact unnotched			ISO 179/1eU
at 23 °C	kJ/m ²	No Break	
Hardness Shore D	-	60	ISO 868
Thermal properties			
Vicat softening temperature ⁴⁾			ISO 306
at 10 N (VST/A)	°C	143	
at 50 N (VST/B)	°C	62	

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



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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.

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