

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 20260217

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	4.6	dg/min	ISO 1133
Density	905	kg/m³	ASTM D1505
Mould shrinkage ⁽¹⁾			
24 hours after injection moulding	1.6	%	SABIC method
FORMULATION			
UV stabilized	☒	-	-
Anti static agent	☐	-	-
Nucleating agent	☐	-	-
MECHANICAL PROPERTIES			
Tensile test			
stress at yield	22	MPa	ISO 527-2 1A
strain at yield ⁽²⁾	6	%	ISO 527-2 1A
tensile modulus ⁽³⁾	1000	MPa	ISO 527-2 1A
Izod impact notched			
at 23 °C	No Break	kJ/m²	ISO 180/1A
at 0 °C	30	kJ/m²	ISO 180/1A
at -20 °C	8	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at 23 °C	No Break	kJ/m²	ISO 179/1eA
Charpy impact unnotched			
at 23 °C	No Break	kJ/m²	ISO 179/1eU
Hardness Shore D	60	-	ISO 868
THERMAL PROPERTIES			
Vicat Softening Temperature ⁽⁴⁾			
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

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CHEMISTRY THAT MATTERS™



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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