

SABIC® PP 108MF10

PP SUPER HIGH IMPACT

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 PROPERTY VALUES

Revision 20220720

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	10	dg/min	ISO 1133
Density	905	kg/m ³	ISO 1183
Mould shrinkage ⁽¹⁾			
24 hours after injection moulding	1.5	%	SABIC method
FORMULATION			
Anti static agent	<input type="checkbox"/>	-	-
Nucleating agent	<input checked="" type="checkbox"/>	-	-
MECHANICAL PROPERTIES			
Tensile test			
stress at yield ⁽²⁾	19	MPa	ISO 527-2 1A
strain at yield	8	%	ISO 527-2 1A
Tensile modulus ⁽³⁾	1000	MPa	ISO 527-2 1A
Izod impact notched			
at 23 °C	No Break	kJ/m ²	ISO 180/1A
at 0 °C	No Break	kJ/m ²	ISO 180/1A
at -20 °C	35	kJ/m ²	ISO 180/1A
Charpy Impact Strength Notched			
at 23 °C	No Break	kJ/m ²	ISO 179/1eA
at 0 °C	No Break	kJ/m ²	ISO 179/1eA
Charpy impact unnotched			
at 23 °C	No Break	kJ/m ²	ISO 179/1eU
Hardness Shore D	52	-	ISO 868
THERMAL PROPERTIES			
Vicat Softening Temperature ⁽⁴⁾			
at 10 N (VST/A)	130	°C	ISO 306
at 50 N (VST/B)	50	°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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