

Revision 20220317

# 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

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 ISO 1183 kg/m<sup>3</sup> Mould shrinkage (1) 24 hours after injection moulding 1.5 % SABIC method FORMULATION Anti static agent  $\checkmark$ Nucleating agent MECHANICAL PROPERTIES Tensile test stress at yield  $^{(2)}$ 19 MPa ISO 527-2 1A strain at yield 8 % ISO 527-2 1A Tensile modulus <sup>(3)</sup> 1000 MPa ISO 527-2 1A Izod impact notched at 23 °C ISO 180/1A No Break kJ/m² at 0 °C kJ/m² ISO 180/1A No Break at -20 °C ISO 180/1A 35 kJ/m² Charpy Impact Strength Notched at 23 °C No Break kJ/m² ISO 179/1eA at 0 °C ISO 179/1eA No Break kJ/m² Charpy impact unnotched at 23 °C ISO 179/1eU No Break kJ/m<sup>2</sup> 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

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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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