

# SABIC® PP 48M10

## PP IMPACT COPOLYMER

### DESCRIPTION

SABIC® PP 48M10 has good flow characteristics, high stiffness and good impact strength. It is typically used for articles with complex shapes, such as crates and boxes, rigid packaging and components for the automotive and electro-technical industries. This grade is also available with an antistatic additive package, namely SABIC® PP 48M40.

Health, Safety and Food Contact regulations:

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site <http://www.SABIC.com>

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

This grade material is UL registered under File E111275 ([www.ul.com](http://www.ul.com)), IMDS 80775790

### TYPICAL PROPERTY VALUES

Revision 20191230

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	15	dg/min	ISO 1133
<b>Density</b>	905	kg/m <sup>3</sup>	ASTM D1505
<b>FORMULATION</b>			
<b>Anti static agent</b>	<input type="checkbox"/>	-	-
<b>Nucleating agent</b>	<input type="checkbox"/>	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
strain at yield	5	%	ISO 527-2 1A
tensile modulus <sup>(1)</sup>	1400	MPa	ISO 527-2 1A
stress at yield <sup>(2)</sup>	26	MPa	ISO 527-2 1A
<b>Izod impact notched</b>			
at -20 °C	5	kJ/m <sup>2</sup>	ISO 180/1A
at 0 °C	7	kJ/m <sup>2</sup>	ISO 180/1A
at 23 °C	8	kJ/m <sup>2</sup>	ISO 180/1A
<b>Charpy Impact Strength Notched</b>			
at -20 °C	6	kJ/m <sup>2</sup>	ISO 179/1eA
at 23 °C	11	kJ/m <sup>2</sup>	ISO 179/1eA
at 0 °C	7	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Hardness Shore D</b>	65	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature <sup>(3)</sup></b>			
at 0.45 MPa (HDT/B)	90	°C	ISO 75
at 1.80 MPa (HDT/A)	55	°C	ISO 75
<b>Vicat Softening Temperature <sup>(4)</sup></b>			
at 50 N (VST/B)	79	°C	ISO 306
at 10 N (VST/A)	151	°C	ISO 306

- (1) Speed of testing: 1 mm/min
- (2) Speed of testing: 50 mm/min
- (3) Flat wise ( testbar 80\*10\*4mm)
- (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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