

# SABIC® PP 48M40

## PP IMPACT COPOLYMER

### DESCRIPTION

SABIC® PP 48M40, a multi-purpose grade, has good flow characteristics, high stiffness and good impact strength. It is formulated with a combined processing and antistatic additive package. 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 without an antistatic additive package, namely SABIC® PP 48M10.

Health, Safety and Food Contact regulations:

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site

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

IMDS 80775790

### TYPICAL PROPERTY VALUES

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 checked="" type="checkbox"/>	-	-
<b>Nucleating agent</b>	<input type="checkbox"/>	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield <sup>(1)</sup>	26	MPa	ISO 527-2 1A
strain at yield	5	%	ISO 527-2 1A
tensile modulus <sup>(2)</sup>	1400	MPa	ISO 527-2 1A
<b>Izod impact notched</b>			
at 0 °C	7	kJ/m <sup>2</sup>	ISO 180/1A
at 23 °C	8	kJ/m <sup>2</sup>	ISO 180/1A
at -20 °C	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>Charpy Impact Strength Notched</b>			
at 23 °C	11	kJ/m <sup>2</sup>	ISO 179/1eA
at -20 °C	6	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 1.80 MPa (HDT/A)	55	°C	ISO 75
at 0.45 MPa (HDT/B)	90	°C	ISO 75
<b>Vicat Softening Temperature <sup>(4)</sup></b>			
at 50 N (VST/B)	79	°C	ISO 306



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
at 10 N (VST/A)	151	°C	ISO 306

- (1) Speed of testing: 50 mm/min  
 (2) Speed of testing: 1 mm/min  
 (3) Flat wise ( testbar 80\*10\*4mm)  
 (4) Temperature rate: 120°C/h

