



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

<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)

IMDS 80775790

TYPICAL PROPERTY VALUES

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



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
at 50 N (VST/B)	79	°C	ISO 306
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