

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.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	15	dg/min	ISO 1133
Density	905	kg/m³	ASTM D1505
FORMULATION			
Anti static agent	□	-	-
Nucleating agent	□	-	-
MECHANICAL PROPERTIES			
Tensile test			
strain at yield	5	%	ISO 527-2 1A
tensile modulus ⁽¹⁾	1400	MPa	ISO 527-2 1A
stress at yield ⁽²⁾	26	MPa	ISO 527-2 1A
Izod impact notched			
at -20 °C	5	kJ/m²	ISO 180/1A
at 0 °C	7	kJ/m²	ISO 180/1A
at 23 °C	8	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at -20 °C	6	kJ/m²	ISO 179/1eA
at 23 °C	11	kJ/m²	ISO 179/1eA
at 0 °C	7	kJ/m²	ISO 179/1eA
Hardness Shore D	65	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature ⁽³⁾			
at 0.45 MPa (HDT/B)	90	°C	ISO 75
at 1.80 MPa (HDT/A)	55	°C	ISO 75
Vicat Softening Temperature ⁽⁴⁾			
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

