

SABIC® PP 512MN10

PP IMPACT COPOLYMER

DESCRIPTION

This grade has excellent flow properties and a good combination of high impact strength and stiffness. It is widely used in articles where good processability, high toughness and a low warpage are required, e.g. vacuum-cleaner housings, large size flower pots, foodstuff containers and ice-cream containers. 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

Revision 20170531

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 230 °C and 2.16 kg	37	dg/min	ISO 1133
Density	905	kg/m ³	ISO 1183
FORMULATION			
Anti static agent	☐	-	-
Nucleating agent	☐	-	-
MECHANICAL PROPERTIES			
Tensile test			
tensile modulus ⁽¹⁾	1300	MPa	ISO 527-2 1A
stress at yield ⁽²⁾	25	MPa	ISO 527-2 1A
Tensile test			
strain at yield ⁽²⁾	5	%	ISO 527-2 1A
Izod impact notched			
at 23 °C	8	kJ/m ²	ISO 180/1A
at 0 °C	6.5	kJ/m ²	ISO 180/1A
at -20 °C	5	kJ/m ²	ISO 180/1A
Charpy Impact Strength Notched			
at 0 °C	7	kJ/m ²	ISO 179/1eA
at -20 °C	5	kJ/m ²	ISO 179/1eA
at 23 °C	11	kJ/m ²	ISO 179/1eA
Hardness Shore D	63	-	ISO 868
THERMAL PROPERTIES			
Heat Deflection Temperature ⁽³⁾			
at 0.45 MPa (HDT/B)	85	°C	ISO 75

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
at 1.80 MPa (HDT/A)	55	°C	ISO 75
Vicat Softening Temperature ⁽⁴⁾			
at 50 N (VST/B)	75	°C	ISO 306
at 10 N (VST/A)	150	°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

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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