SABIC® PP 512MN10

PP IMPACT COPOLYMER

DESCRIPTION

SABIC® PP 512MN10 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 20191230

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	37	dg/min	ISO 1133
Density	905	kg/m³	ASTM D1505
FORMULATION			
Anti static agent	☐	-	-
Nucleating agent	☐	-	-
MECHANICAL PROPERTIES			
Tensile test			
strain at yield [1]	5	%	ISO 527-2 1A
tensile modulus [2]	1300	MPa	ISO 527-2 1A
stress at yield	25	MPa	ISO 527-2 1A
Izod impact notched			
at -20 °C	5	kJ/m²	ISO 180/1A
at 0 °C	6.5	kJ/m²	ISO 180/1A
at 23 °C	8	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at 23 °C	11	kJ/m²	ISO 179/1eA
at 0 °C	7	kJ/m²	ISO 179/1eA
at -20 °C	5	kJ/m²	ISO 179/1eA
Hardness Shore D	63	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature [3]			
at 1.80 MPa (HDT/A)	55	°C	ISO 75
at 0.45 MPa (HDT/B)	85	°C	ISO 75
Vicat Softening Temperature [4]			
at 50 N (VST/B)	75	°C	ISO 306

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CHEMISTRY THAT MATTERS™

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
at 10 N (VST/A)	150	°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

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.

DISCLAIMER

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