

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

TYPICAL PROPERTY VALUES

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	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/m ²	ISO 180/1A
at 0 °C	6.5	kJ/m ²	ISO 180/1A
at 23 °C	8	kJ/m ²	ISO 180/1A
Charpy Impact Strength Notched			
at 23 °C	11	kJ/m ²	ISO 179/1eA
at 0 °C	7	kJ/m ²	ISO 179/1eA
at -20 °C	5	kJ/m ²	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

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