SABIC® PP 56M10

PP IMPACT COPOLYMER

DESCRIPTION

SABIC® PP 56M10 has high impact resistance, even at low temperatures, and high stiffness. It is typically used in a variety of applications e.g. containers and crates & boxes. It is also used in automotive components, like for example battery cases.

Health, Safety and Food Contact regulations:Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	6.2	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]	27	MPa	ISO 527-2 1A
Izod impact notched			
at -20 °C	5	kJ/m²	ISO 180/1A
at 23 °C	11	kJ/m²	ISO 180/1A
at 0 °C	7	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at 0 °C	8	kJ/m²	ISO 179/1eA
at 23 °C	12.5	kJ/m²	ISO 179/1eA
at -20 °C	6	kJ/m²	ISO 179/1eA
Hardness Shore D	65	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature [3]			
at 0.45 MPa (HDT/B)	85	°C	ISO 75
at 1.80 MPa (HDT/A)	55	°C	ISO 75
Vicat Softening Temperature [4]			
at 50 N (VST/B)	78	°C	ISO 306
at 10 N (VST/A)	152	°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