

SABIC® PP 58MNK10

PP IMPACT COPOLYMER

DESCRIPTION

This grade combines an excellent stiffness with high impact resistance. It has a low tendency to warp. Excellent flow in combination with high crystallisation speed enables outstanding processability aiming at easy mould filling and short cycle times. Thanks to the mentioned performance this grade is typically used in several kinds of containers. The excellent gloss level makes this material also favourable for household applications.

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>. This product is not intended for and must not be used in any pharmaceutical/medical applications.

This grade material is UL registered under File E111275 (www.ul.com). IMDS 80775790

TYPICAL PROPERTY VALUES

Revision 20240126

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 ⁽¹⁾	4	%	ISO 527-2 1A
stress at yield	27	MPa	ISO 527-2 1A
tensile modulus ⁽²⁾	1550	MPa	ISO 527-2 1A
Izod impact notched			
at 0 °C	7	kJ/m²	ISO 180/1A
at 23 °C	11	kJ/m²	ISO 180/1A
at -20 °C	6	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at -20 °C	6	kJ/m²	ISO 179/1eA
at 0 °C	8	kJ/m²	ISO 179/1eA
at 23 °C	12.5	kJ/m²	ISO 179/1eA
Hardness Shore D	65	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature ⁽³⁾			
at 0.45 MPa (HDT/B)	100	°C	ISO 75
at 1.80 MPa (HDT/A)	60	°C	ISO 75
Vicat Softening Temperature ⁽⁴⁾			
at 10 N (VST/A)	151	°C	ISO 306
at 50 N (VST/B)	80	°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

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY. NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

