



SABIC® PP 58MNK10

PP block copolymer for Injection moulding

Description:

This grade combines an excellent stiffness with high impact resistance. It has a narrow molecular weight distribution and 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. Due to the mentioned performance this grade is suitable for usage in several kinds of containers. The excellent high 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-europe.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 values

Revision 20130606

Properties	Unit (SI)	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 230 °C and 2.16 kg	g/10 min	15	ASTM D 1238
Density	kg/m ³	905	ASTM D 792
Formulation			
Anti static agent	-	No	-
Nucleating agent	-	Yes	-
Mechanical properties			
Tensile test			ASTM D 638
stress at yield ¹⁾	MPa	26	
strain at yield ¹⁾	%	4	
secant modulus at 1% elongation ²⁾	MPa	1600	
Izod impact notched			ASTM D 256A
at 23 °C	J/m	100	
at 0 °C	J/m	75	
at -20 °C	J/m	65	
Rockwell hardness			ASTM D 785
R-scale	-	97	
Thermal properties			
Heat deflection temperature			ASTM D 648
at 1.80 MPa (HDT/A)	°C	65	
at 0.45 MPa (HDT/B)	°C	105	
Vicat softening temperature ³⁾			ASTM D 1525
at 10 N (VST/A)	°C	151	
at 50 N (VST/B)	°C	80	

1) Speed of testing: 50 mm/min

2) Speed of testing: 5 mm/min

3) Temperature rate: 120°C/h



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Quality:

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO9001.

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. 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.

SABIC Europe as referred to herein means any legal entity belonging to the SABIC Europe group of companies.