



SABIC® PP 83MF90

PP block copolymer for Injection moulding

Description: This grade combines a very high impact strength, even at low temperatures, with a high stiffness and moderate flow properties. It is suitable for injection moulding of technical components and containers exposed to heavy loads and needing a high toughness. This grade is UV-stabilised and also available with a general purpose additive package.

Health, Safety and Food Contact regulations: Material Safety Data Sheets (MSDS) is 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.

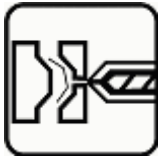
This grade material is UL registered under File E111275 (www.ul.com) / IMDS ID: 80775790

Typical values

Revision 20140109

Properties	Unit (Si)	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 230 °C and 2.16 kg	dg/min	1.8	ISO 1133
Density	kg/m ³	905	ISO 1183
Formulation			
UV stabilized	-	Yes	-
Anti static agent	-	No	-
Nucleating agent	-	No	-
Mechanical properties			
Tensile test			ISO 527-2 1A
stress at yield ¹⁾	MPa	23	
strain at yield ¹⁾	%	5	
tensile modulus ²⁾	MPa	1200	
Izod impact notched			ISO 180/1A
at 23 °C	kJ/m ²	No Break	
at 0 °C	kJ/m ²	No Break	
at -20 °C	kJ/m ²	12	
Charpy impact notched			ISO 179/1eA
at 23 °C	kJ/m ²	75	
at 0 °C	kJ/m ²	40	
at -20 °C	kJ/m ²	10	
Charpy impact unnotched			ISO 179/1eU
at 23 °C	kJ/m ²	No Break	
Hardness Shore D	-	61	ISO 868
Thermal properties			
Heat deflection temperature ³⁾			ISO 75
at 1.80 MPa (HDT/A)	°C	55	
at 0.45 MPa (HDT/B)	°C	85	
Vicat softening temperature ⁴⁾			ISO 306
at 10 N (VST/A)	°C	148	
at 50 N (VST/B)	°C	68	

- 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



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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.