



SABIC® PP FPH50

PP Homopolymer FLOWPACT for Injection moulding

Description:

SABIC® PP FPH50 is a grade developed for thin wall packaging as well as the caps & closures market. The grade is nucleated and is characterised by a high crystallisation temperature, excellent flow behaviour in combination with a high stiffness. SABIC® PP FPH50 allows for very cost efficient processing on the basis of easy mould filling, very short cycle times and robust processing behaviour in combination with pigments. It has a very good antistatic performance and shows easy demoulding.

Application:

SABIC® PP FPH50 is typically used in thin wall packing applications both for food and non-food segments. In caps and closure, the grade could be used for wide mouth caps, amongst others. In media packaging, the grade offers opportunities for cycle time optimisation. The grade has excellent heat deflection temperature making it particularly suitable for hot fill 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/europe/en/products-services/>

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 7172624

Typical values

Revision 20150303

Properties	Unit (SI)	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 230 °C and 2.16 kg	g/10 min	50	ASTM D 1238
Density	kg/m ³	905	ASTM D 792
Formulation			
Anti static agent	-	Yes	-
Nucleating agent	-	Yes	-
Mechanical properties			
Tensile test			ASTM D 638
stress at yield ¹⁾	MPa	40	
strain at yield ¹⁾	%	7	
secant modulus at 1% elongation ²⁾	MPa	2100	
Izod impact notched at 23 °C	J/m	25	ASTM D 256A
Rockwell hardness R-scale	-	114	ASTM D 785
Thermal properties			
Heat deflection temperature at 1.80 MPa (HDT/A)	°C	65	ASTM D 648
at 0.45 MPa (HDT/B)	°C	110	
Vicat softening temperature ³⁾ at 10 N (VST/A)	°C	154	ASTM D 1525
at 50 N (VST/B)	°C	103	

1) Speed of testing: 50 mm/min

2) Speed of testing: 1 mm/min

3) Temperature rate: 120°C/h



SABIC® PP FPH50

PP Homopolymer FLOWPACT for Injection moulding

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