

# SABIC® PP FPH50

## PP HOMOPOLYMER FLOWPACT

### 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 shortcycle 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>. This product is not intended for and must not be used in any pharmaceutical/medical applications. This grade material is UL registered under File E11275 ([www.ul.com](http://www.ul.com)) / IMDS 7172624

### TYPICAL PROPERTY VALUES

Revision 20170531

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230 °C and 2.16 kg	50	dg/min	ISO 1133
<b>Density</b>	905	kg/m <sup>3</sup>	ISO 1183
<b>FORMULATION</b>			
<b>Anti static agent</b>	<input checked="" type="checkbox"/>	-	-
<b>Nucleating agent</b>	<input checked="" type="checkbox"/>	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield <sup>(1)</sup>	39	MPa	ISO 527-2 1A
tensile modulus <sup>(2)</sup>	2050	MPa	ISO 527-2 1A
<b>Tensile test</b>			
strain at yield <sup>(1)</sup>	7	%	ISO 527-2 1A
<b>Izod impact notched</b>			
at 23 °C	2.5	kJ/m <sup>2</sup>	ISO 180/1A
<b>Charpy Impact Strength Notched</b>			
at 23 °C	3.0	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Hardness Shore D</b>	71	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Heat Deflection Temperature <sup>(3)</sup></b>			
at 1.80 MPa (HDT/A)	60	°C	ISO 75
at 0.45 MPa (HDT/B)	105	°C	ISO 75

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>Vicat Softening Temperature <sup>(4)</sup></b>			
at 10 N (VST/A)	154	°C	ISO 306
at 50 N (VST/B)	103	°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

## QUALITY

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

## 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 Saudi Arabia Basic Industries Corporation.