



# SABIC<sup>®</sup> PP FPC70

## PP IMPACT COPOLYMER FLOWPACT

### DESCRIPTION

As part of SABIC<sup>®</sup> PP FLOWPACT portfolio, FPC70 delivers high top load performance (potential downgauging) with a superior stiffness / impact balance. It is nucleated and has good antistatic performance with easy demoulding. This grade has good flow behavior, and it is typically used by our customer for high-speed injection moulding process, potentially enabling very cost efficient processing on the basis of easy mould filling and very short cycle times.

Applications:

SABIC<sup>®</sup> PP FPC70 is typically used in rigid packaging applications for both food and non-food industries. This includes packaging for yellow fats, cheese spreads, dairy, frozen, chilled and ambient food, household chemicals and paints among others.

It can be also used in several applications in the caps & closures as well in housewares.

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230 °C and 2.16 kg	70	dg/min	ISO 1133
<b>Density</b>	905	kg/m <sup>3</sup>	ASTM D1505
<b>FORMULATION</b>			
<b>Anti static agent</b>	☑	-	-
<b>Nucleating agent</b>	☑	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield <sup>(1)</sup>	28	MPa	ISO 527-2 1A
strain at yield	4	%	ISO 527-2 1A
tensile modulus <sup>(2)</sup>	1700	MPa	ISO 527-2 1A
<b>Izod impact notched</b>			
at 23 °C	6	kJ/m <sup>2</sup>	ISO 180/1A
at 0 °C	4	kJ/m <sup>2</sup>	ISO 180/1A
at -20 °C	3	kJ/m <sup>2</sup>	ISO 180/1A
<b>Charpy Impact Strength Notched</b>			
at 23 °C	7	kJ/m <sup>2</sup>	ISO 179/1eA
at 0 °C	5	kJ/m <sup>2</sup>	ISO 179/1eA
at -20 °C	3	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature <sup>(3)</sup></b>			
at 0.45 MPa (HDT/B)	100	°C	ISO 75
at 1.80 MPa (HDT/A)	60	°C	ISO 75
<b>Vicat Softening Temperature <sup>(4)</sup></b>			



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
at 10 N (VST/A)	150	°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

## 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.