

# SABIC® PP FPC105

## PP IMPACT COPOLYMER FLOWPACT

### DESCRIPTION

SABIC® PP FPC105 has been developed as a new member of the SABIC® PP FLOWPACT solutions dedicated to the thin wall packaging market. SABIC® PP FPC105 delivers very high flow with superior stiffness - impact balance and excellent organoleptic properties. This grade is designed for high-speed injection moulding and enables very cost efficient processing with short cycle times. In addition, it has an excellent dimensional stability.

It has a good antistatic performance and permits easy demoulding. It is also nucleated and phthalate & odor free.

### TYPICAL APPLICATIONS

SABIC® PP FPC105 is typically used in thin wall packing applications for yellow fats/margarine tubs, dairy products, frozen, chilled and ambient food, houseware & compounding.

### TYPICAL PROPERTY VALUES

Revision 20230323

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	100	dg/min	ASTM D1238
<b>Density</b>			
@ 23°C	905	kg/m <sup>3</sup>	ASTM D792
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
<b>Tensile Strength at Yield</b>	27	MPa	ASTM D638
<b>Tensile Elongation at Yield</b>	4	%	ASTM D638
<b>Flexural Modulus (1% Secant)</b>	1380	MPa	ASTM D790 A
<b>Notched Izod Impact Strength at 23°C</b>	35	J/m	ASTM D256
<b>Notched Izod Impact Strength at -20°C</b>	31	J/m	ASTM D256
<b>Rockwell Hardness, R-Scale</b>	80	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
<b>Heat Deflection Temperature at 455kPa</b>	110	°C	ASTM D648
<b>Vicat Softening Point</b>	148	°C	ASTM D1525

(1) Based on injection molded specimens

### PROCESSING CONDITIONS

Typical processing conditions for SABIC® PP FPC105 are Barrel temperature range: 200 - 250°C.

Mold shrinkage: 1.2 - 2.0% depending on wall thickness and processing conditions.

Mold temperature: normally 15 - 40°C, up to 65°C for thick parts.

### HEALTH AND SAFETY CONSIDERATIONS AND PRECAUTIONS

SABIC® PP FPC105 is suitable for food contact application. Detailed information is provided in relevant documents / certificates and for additional specific information please contact SABIC local representative.

DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical / medical applications.



## STORAGE AND HANDLING

Polypropylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PP resin within 6 months after delivery.

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