

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 20240709

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	100	dg/min	ASTM D1238
Density			
@ 23°C	905	kg/m³	ASTM D792
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Elongation at Yield	4	%	ASTM D638
Flexural Modulus (1% Secant)	1380	MPa	ASTM D790 A
Notched Izod Impact Strength at 23°C	35	J/m	ASTM D256
Notched Izod Impact Strength at -20°C	31	J/m	ASTM D256
Rockwell Hardness, R-Scale	80	-	ASTM D785
THERMAL PROPERTIES			
Heat Deflection Temperature at 455kPa	110	°C	ASTM D648
Vicat Softening Point	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.

© 2024 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS™



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.

NOTICE: The information and data contained herein are believed to be correct and given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any immunity against infringement.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

