

SABIC® PP FPC100

PP IMPACT COPOLYMER FLOWPACT

DESCRIPTION

SABIC® PP FPC100 has been developed as a new member of the SABIC® PP FLOWPACT range dedicated to the thin wall packaging market. It is nucleated and is characterized by a high crystallization temperature and excellent flow behaviour in combination with a nice stiffness to impact balance.

This grade is typically used for high-speed injection moulding and it enables very cost efficient processing on the basis of easy mould filling and very short cycle times. It has a very good antistatic performance and permit easy demoulding. This material is typically used in thin wall packing applications both for food and non-food segments. This includes yellow fats/margarine tubs, dairy packaging and housewares. The grade has an excellent dimensional stability what is crucial for the thin wall packaging market.

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>. The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

IMDS 80775790

TYPICAL PROPERTY VALUES

Revision 20190320

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	100	dg/min	ISO 1133
Density	905	kg/m³	ASTM D1505
FORMULATION			
Anti static agent	☒	-	-
Nucleating agent	☒	-	-
MECHANICAL PROPERTIES			
Tensile test			
stress at yield	25	MPa	ISO 527-2 1A
strain at yield ⁽¹⁾	4	%	ISO 527-2 1A
tensile modulus ⁽²⁾	1600	MPa	ISO 527-2 1A
Izod impact notched			
at 0 °C	4	kJ/m²	ISO 180/1A
at 23 °C	5.5	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at 23 °C	8	kJ/m²	ISO 179/1eA
at 0 °C	6	kJ/m²	ISO 179/1eA
Hardness Shore D	62	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature ⁽³⁾			
at 0.45 MPa (HDT/B)	95	°C	ISO 75
at 1.80 MPa (HDT/A)	55	°C	ISO 75
Vicat Softening Temperature ⁽⁴⁾			
at 10 N (VST/A)	150	°C	ISO 306
at 50 N (VST/B)	76	°C	ISO 306

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CHEMISTRY THAT MATTERS™



- (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

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

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