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 permitseasy 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.

IMDS 80775790

TYPICAL PROPERTY VALUES

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

(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