SABIC® PP FPC100

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This grade 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 stiffness to impact balance. This grade was designed 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 permits 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.
The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information	
Additive	Antistatic
	Nucleating Agent
Features	Antistatic
	Block Copolymer
	Fast Molding Cycle
	Good Dimensional Stability
	Good Flow
	Good Impact Resistance
	Good Mold Release
	Good Stiffness
	Nucleated
Uses	Containers
	Food Packaging
	Household Goods
	Packaging
	Thin-walled Packaging
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	100	g/10 min	ASTM D1238, ISO 1133

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785
Shore Hardness (Shore D)	62		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			

1% Secant [1]	1500	MPa	ASTM D638
--	1450	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield [2]	24.0	MPa	ASTM D638
Yield	25.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield [3]	4.0	%	ASTM D638
Yield	4.0	%	ISO 527-2/1A/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
0°C	6.0	kJ/m²	
23°C	8.0	kJ/m²	
Notched Izod Impact			
0°C	45	J/m	ASTM D256A
23°C	60	J/m	ASTM D256A
0°C	5.0	kJ/m²	ISO 180/1A
23°C	7.0	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	100	°C	ASTM D648
0.45 MPa, Unannealed [4]	95.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	60.0	°C	ASTM D648
1.8 MPa, Unannealed [5]	55.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	150	°C	ASTM D1525, ISO 306/A120 5 [6]
--	76.0	°C	ASTM D1525, ISO 306/B120 6 [7]

NOTE	
1.	5.0 mm/min
2.	50 mm/min
3.	50 mm/min
4.	testbar 80*10*4mm
5.	testbar 80*10*4mm
6.	Rate B (120°C/h), Loading 1 (10 N)
7.	Rate B (120°C/h), Loading 2 (50 N)

Recommended distributors for this material

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