

SABIC® PP FPC45

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 rigid packaging market. It delivers a high top load performance (potential downgauging) with a superior stiffness / impact balance. It is nucleated and is characterized by a high crystallization temperature and excellent flow behavior. 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 with easy demoulding.

Application: This material is typically used in rigid packaging applications for both food and non-food industries. This includes packaging for yellow fats, cheese spreads, dairy, frozen, chilled and ambient food, household chemicals, paints among others. It can be also used in several applications in the caps & closures industry as well in housewares. The grade has excellent heat deflection temperature making it particularly suitable for hot fill applications. The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

General Information			
Additive	Nucleating agent		
	Antistatic property		
Features	Block Copolymer		
	Nucleated		
	Antistatic property		
	Fast molding cycle		
	High liquidity		
	Good demoulding performance		
Uses	Packaging		
	Shield		
	Household goods		
	Food packaging		
	Shell		
	Hard packaging		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	45	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700	MPa	ISO 527-2/1
Tensile Stress (Yield)	30.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-20°C	3.5	kJ/m ²	ISO 179/1eA
0°C	5.5	kJ/m ²	ISO 179/1eA
23°C	7.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ISO 180/1A
-20°C	3.5	kJ/m ²	ISO 180/1A
0°C	4.5	kJ/m ²	ISO 180/1A
23°C	7.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹			
0.45 MPa, not annealed	100	°C	ISO 75-2/Bf
1.8 MPa, not annealed	60.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	150	°C	ISO 306/A120
--	80.0	°C	ISO 306/B120
NOTE			
1.	80*10*4mm		

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