SABIC® PP FPH50

Polypropylene Homopolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP FPH50 is a grade developed for thin wall packaging as well as the caps & closures market. The grade is nucleated and is characterised by a high crystallisation temperature, excellent flow behaviour in combination with a high stiffness. SABIC® PP FPH50 allows for very cost efficient processing on the basis of easy mould filling, very short cycle times and robust processing behaviour in combination with pigments. It has a very good antistatic performance and shows easy demoulding.

SABIC® PP FPH50 is typically used in thin wall packing applications both for food and non-food segments. In caps and closure, the grade could be used for wide mouth caps, amongst others. In media packaging, the grade offers opportunities for cycle time optimisation. The grade has excellent heat deflection temperature making it particularly suitable for hot fill applications.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
UL YellowCard	E111275-100605366		
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Fast Molding Cycle		
	Good Flow		
	Good Mold Release		
	High Stiffness		
	Homopolymer		
	Nucleated		
Uses	Caps		
	Closures		
	Food Packaging		
	Media Packaging		
	Packaging		
	Thin-walled Packaging		
UL File Number	E111275		
Forms	Pellets		
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)	50	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	114		ASTM D785
Shore Hardness (Shore D)	71		ISO 868

Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus				
1% Secant ¹	2100	MPa	ASTM D638	
	2050	MPa	ISO 527-2/1A/1	
Tensile Strength				
Yield ²	40.0	MPa	ASTM D638	
Yield	39.0	MPa	ISO 527-2/1A/50	
Tensile Elongation				
Yield ³	7.0	%	ASTM D638	
Yield	7.0	%	ISO 527-2/1A/50	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength (23°C)	3.0	kJ/m²	ISO 179/1eA	
Notched Izod Impact				
23°C	25	J/m	ASTM D256A	
23°C	2.5	kJ/m²	ISO 180/1A	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load				
0.45 MPa, Unannealed	110	°C	ASTM D648	
0.45 MPa, Unannealed ⁴	105	°C	ISO 75-2/Bf	
1.8 MPa, Unannealed	65.0	°C	ASTM D648	
1.8 MPa, Unannealed ⁵	60.0	°C	ISO 75-2/Af	
Vicat Softening Temperature				
	154	°C	ASTM D1525, ISO 306/A120 6 ⁶	
	103	°C	ASTM D1525, ISO 306/B120 7 ⁷	
NOTE				
1.	1.0 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)			

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