SABIC® PP FPC55

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP FPC55 is a grade developed for the thin wall packaging market. The grade is nucleated and is characterised by excellent flow behaviour in combination with an improved stiffness to impact balance. SABIC® PP FPC55 allows for very cost efficient processing on the basis of easy mould filling, short cycle times and improved part consistency in combination with pigments. It contains an antistatic package.
SABIC® PP FPC55 is typically used in thin wall packing applications both for food and non-food segments. This includes pails & containers, yellow fats/margarine tubs and dairy cups. In de caps and closure segment, the grade could be used for thin walled spray through caps, amongst other. 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			
UL YellowCard	E111275-100605362		
Additive	Antistatic Nucleating Agent		
Features	Antistatic Block Copolymer Fast Molding Cycle Good Flow Good Mold Release Nucleated		
Uses	Caps Closures Containers Cups Food Packaging Packaging Pails Thin-walled Packaging		
UL File Number	E111275		
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)	55	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]	1550	MPa	ASTM D638
--	1500	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
-20°C	5.0	kJ/m^2	
0°C	7.0	kJ/m^2	
23°C	9.0	kJ/m^2	
Notched Izod Impact			
-20°C	45	J/m	ASTM D256A
0°C	60	J/m	ASTM D256A
23°C	70	J/m	ASTM D256A
-20°C	5.0	kJ/m^2	ISO 180/1A
0°C	6.0	kJ/m^2	ISO 180/1A
23°C	8.0	kJ/m^2	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 6 [6]
--	76.0	°C	ASTM D1525, ISO 306/B120 7 [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)

infringement occurs, please contact us immediately.

Recommended distributors for this material

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