SABIC® PP 571P

Polypropylene Homopolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP 571P is a higher flow material typically used in extrusion applications like sheet and thermoforming. This grade combines higher mfi and high stiffness.
SABIC® PP 571P is typically used in off line thermoforming processes. The higher mfi is seen by our customers as advantages as they can run faster and have better wall thickness control of the sheet. These advances are then extrapolated to the forming step of the process. Other application that could be thought of are blister packaging were very thin packaging is required. The higher mfi makes it easier to run thinner sheet.
This grade is characterized by excellent gloss and good surface hardness. Typical applications are sanitary, closures with and without integral hinges.
The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information	
UL YellowCard	E111275-306885
Features	High Flow High Gloss High Hardness High Stiffness Homopolymer Medium Isotactic Wide Molecular Weight Distribution
Uses	Closures Packaging Sanitary Products Sheet Thermoforming Applications
UL File Number	E111275
Forms	Pellets
Processing Method	Extrusion Injection Molding Sheet Extrusion Thermoforming

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)	5.7	g/10 min	ASTM D1238, ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	112		ASTM D785
Shore Hardness (Shore D)	69		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant [1]	1800	MPa	ASTM D638
--	1700	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield [2]	37.0	MPa	ASTM D638
Yield	37.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield [3]	8.0	%	ASTM D638
Yield	8.0	%	ISO 527-2/1A/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	4.0	kJ/m^2	ISO 179/1eA
Notched Izod Impact			
23°C	25	J/m	ASTM D256A
23°C	3.0	kJ/m^2	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	90.0	°C	ASTM D648
0.45 MPa, Unannealed [4]	85.0	°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			
--	154	°C	ASTM D1525, ISO 306/A120 6 [6]
--	95.0	°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)

Recommended distributors for this material

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