

SABIC® PP 578L

Polypropylene Homopolymer
Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP 578L is a PP homopolymer grade which contains a well balanced antistatic and slip agent package. This grade allows for cost efficient processing on the basis of good flow behavior, short cycle times, good demoulding and robust processing behaviour. Products made from SABIC® PP 578L typically have low warpage, high stiffness in combination with moderate impact strength at room temperature, good antistatic behavior and a high gloss.

SABIC® PP 578L is typically used in caps & closures and thin wall packaging both in food and non-food segments.

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		
Additive	Antistatic		
	Slip		
Features	Antistatic		
	Fast Molding Cycle		
	Good Flow		
	Good Mold Release		
	High Gloss		
	High Stiffness		
	Homopolymer		
	Low Warpage		
	Medium Impact Resistance		
	Slip		
Uses	Caps		
	Closures		
	Food Packaging		
	Packaging		
	Thin-walled Packaging		
UL File Number	E111275		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		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	36.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	9.0	%	ASTM D638
Yield	9.0	%	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	95.0	°C	ASTM D648
0.45 MPa, Unannealed ⁴	90.0	°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			
--	153	°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)		

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