

# SABIC® PP 576P

Polypropylene Homopolymer  
Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP 576P is a PP homopolymer grade that has good flow properties and a narrow molecular weight distribution. Products made from SABIC® PP 576P typically have low warpage, high stiffness in combination with moderate impact strength at room temperature and a high gloss. SABIC® PP 576P 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		
Features	Good Flow		
	High Gloss		
	High Stiffness		
	Homopolymer		
	Low Warpage		
	Medium Impact Resistance		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Closures		
	Food Packaging		
	Packaging		
UL File Number	E111275		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Shore Hardness (Shore D)	71		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant <sup>1</sup>	1850	MPa	ASTM D638
--	1800	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield <sup>2</sup>	37.0	MPa	ASTM D638
Yield	37.0	MPa	ISO 527-2/1A/50

Tensile Elongation			
Yield <sup>3</sup>	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 <sup>2</sup>	ISO 179/1eA
Notched Izod Impact			
23°C	25	J/m	ASTM D256A
23°C	3.0	kJ/m <sup>2</sup>	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 <sup>4</sup>	90.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	65.0	°C	ASTM D648
1.8 MPa, Unannealed <sup>5</sup>	60.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	152	°C	ASTM D1525, ISO 306/A120 6 <sup>6</sup>
--	94.0	°C	ASTM D1525, ISO 306/B120 7 <sup>7</sup>
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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