

SABIC® PP 578N

Polypropylene Homopolymer

Saudi Basic Industries Corporation (SABIC)

Message:

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

SABIC® PP 578N is typically used in domestic appliances and furniture, even as replacement for talcum or chalk filled compounds.

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	Nucleating Agent		
Features	Fast Molding Cycle		
	Good Flow		
	Good Processability		
	High Gloss		
	High Stiffness		
	Homopolymer		
	Low Warpage		
	Medium Impact Resistance		
	Nucleated		
Uses	Appliances		
	Furniture		
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)	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)	72		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	2000	MPa	ASTM D638
--	1900	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	38.0	MPa	ASTM D638

Yield	38.0	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	100	°C	ASTM D648
0.45 MPa, Unannealed ⁴	95.0	°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/A 6 ⁶
--	99.0	°C	ASTM D1525, ISO 306/B 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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