

SABIC® PP 579S

Polypropylene Homopolymer
Saudi Basic Industries Corporation (SABIC)

Message:

This grade has been specially developed for use in thin-walled, antistatic containers. The material has outstanding flow properties and a high stiffness, enabling high production rates. Special characteristics are low tendency for warpage, high lot to lot consistency, good contact transparency and high gloss. It is formulated with a combined processing and antistatic additive package.
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		
	Processing Aid		
Features	Antistatic		
	Fast Molding Cycle		
	Good Flow		
	High Gloss		
	High Stiffness		
	Homopolymer		
	Low Warpage		
Uses	Thin-walled Containers		
UL File Number	E111275		
Forms	Pellets		
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)	47	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		ASTM D785
Shore Hardness (Shore D)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1800	MPa	ASTM D638
--	1750	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	8.0	%	ASTM D638
Yield	9.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	25	J/m	ASTM D256A
23°C	2.5	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/A 6 ⁶
--	95.0	°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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