

SABIC® PP 527K

Polypropylene Homopolymer
Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP 527K is a leading grade typically used for products in thermoforming. Tailoring of the polymer architecture combined with effective nucleation resulted in a good balance of very high stiffness combined with excellent transparency. Its high crystallisation temperature is ideally suited for further line speed improvements. Moreover it is formulated with a combined processing and antistatic additive package.

Application:

SABIC® PP 527K is typically used in packaging for Fruit, Vegetables, Meat, Fish, Poultry and Ambient Food packaging.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
UL YellowCard	E111275-306884		
Additive	Antistatic		
	Nucleating Agent		
	Processing Aid		
Features	Antistatic		
	Good Processability		
	High Clarity		
	High Isotactic		
	High Stiffness		
	Homopolymer		
	Nucleated		
Uses	Wide Molecular Weight Distribution		
Uses	Food Packaging		
	Thermoforming Applications		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Thermoforming		
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)	3.0	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	2300	MPa	ASTM D638
--	2200	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	40.0	MPa	ASTM D638

Yield	40.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	6.0	%	ASTM D638
Yield	6.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	30	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	120	°C	ASTM D648
0.45 MPa, Unannealed ⁴	115	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	70.0	°C	ASTM D648
1.8 MPa, Unannealed ⁵	65.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	155	°C	ASTM D1525, ISO 306/A120 6 ⁶
--	100	°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)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT