

SABIC® PP 531Ph

Polypropylene Homopolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP 531Ph has a high molecular weight and therefore mainly used for extrusion. It can be used for non-pressure pipes and sheet applications. The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information	
Features	High Molecular Weight
	Homopolymer
Uses	Piping
	Sheet
Processing Method	Extrusion
	Pipe Extrusion
	Sheet Extrusion

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)	0.30	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785
Shore Hardness (Shore D)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1600	MPa	ASTM D638
--	1600	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	38.0	MPa	ASTM D638
Yield	37.0	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			ISO 179/1eA
-20°C	2.5	kJ/m ²	
0°C	3.5	kJ/m ²	
23°C	6.0	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU

Notched Izod Impact			
0°C	30	J/m	ASTM D256A
23°C	60	J/m	ASTM D256A
-20°C	2.5	kJ/m ²	ISO 180/1A
0°C	3.5	kJ/m ²	ISO 180/1A
23°C	6.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	90.0	°C	ASTM D648
0.45 MPa, Unannealed ⁴	85.0	°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			
--	156	°C	ASTM D1525, ISO 306/A120 5 ⁶
--	98.0	°C	ASTM D1525, ISO 306/B120 6 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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