

SABIC® PP PHC26

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This grade combines very high impact resistance, also at low temperatures, with high stiffness and offers good flow properties. Due to its narrow molecular weight distribution, the very low tendency to warp and the excellent surface quality, SABIC® PP PHC26 is typically used in injection moulding of suitcase shells, crates & boxes and automotive parts.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
Additive	Nucleating Agent		
Features	Block Copolymer		
	Good Flow		
	Good Surface Finish		
	High Stiffness		
	Low Temperature Impact Resistance		
	Low Warpage		
	Narrow Molecular Weight Distribution		
	Nucleated		
Uses	Ultra High Impact Resistance		
	Automotive Applications		
	Crates		
Forms	Luggage		
	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)	8.0	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ASTM D785
Shore Hardness (Shore D)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1300	MPa	ASTM D638
--	1250	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	22.0	MPa	ASTM D638
Yield	23.0	MPa	ISO 527-2/1A/50

Tensile Elongation			
Yield ³	6.0	%	ASTM D638
Yield	5.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	9.0	kJ/m ²	
0°C	15	kJ/m ²	
23°C	60	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact			
-20°C	110	J/m	ASTM D256A
0°C	200	J/m	ASTM D256A
23°C	No Break		ASTM D256A, ISO 180/1A
-20°C	10	kJ/m ²	ISO 180/1A
0°C	20	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	55.0	°C	ASTM D648
1.8 MPa, Unannealed ⁵	50.0	°C	ISO 75-2/af
Vicat Softening Temperature			
--	147	°C	ASTM D1525, ISO 306/A120 5 ⁶
--	68.0	°C	ASTM D1525, ISO 306/B120 6 ⁷
NOTE			
1.	5.0 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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