

SABIC® PP PHC31-81

抗冲击共聚聚丙烯

SABIC

Technical Data

Product Description

SABIC® PP PHC31-81 is a grade which combines high stiffness with good impact strength. Its excellent flow properties and narrow molecular weight distribution permits fast cycle-times and injection moulding of articles demanding low warpage and high dimensional stability. This grade is formulated with a combined processing and UV-stabilisation package. Typical applications are automotive components. It is also available in a general purpose additive package.

SABIC® PP PHC31-81 is a designated automotive grade.

IMDS ID: 80775790

General

Additive	加工助剂	紫外线稳定剂	
Features	Block Copolymer	高刚性	
	UV Stabilized	抗紫外线性能良好	良好抗撞击性
	尺寸稳定性良好	快的成型周期	窄分子量分布
	低翘曲性	良好的流动性	
Uses	汽车内部零件		
Automotive Specifications	IMDS ID 80775790	PSA Peugeot-Citroën SPA X62 3483	
Processing Method	注射成型		

Physical

	额定值	单位制	测试方法
Density	0.905	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage (24 小时)	1.6	%	Internal Method

Mechanical

	额定值	单位制	测试方法
Tensile Modulus	1300	MPa	ISO 527-2/1A
Tensile Stress (屈服)	25.0	MPa	ISO 527-2/1A
Tensile Strain (屈服)	5.0	%	ISO 527-2/1A

Impact

	额定值	单位制	测试方法
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	5.0	kJ/m²	
0°C	8.0	kJ/m²	
23°C	13	kJ/m²	
Notched Izod Impact Strength			ISO 180/1A
-20°C	5.0	kJ/m²	
0°C	7.0	kJ/m²	
23°C	11	kJ/m²	

Hardness

	额定值	单位制	测试方法
Shore Hardness (邵氏 D)	65		ISO 868

Thermal

	额定值	单位制	测试方法
Heat Deflection Temperature ³			
0.45 MPa, 未退火, 4.00 mm	80.0	°C	ISO 75-2/Bf
1.8 MPa, 未退火, 4.00 mm	55.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	149	°C	ISO 306/A120
--	74.0	°C	ISO 306/B120

