

Product Texts

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

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1300	MPa	ISO 527
Yield stress	25	MPa	ISO 527
Yield strain	5	%	ISO 527
Charpy notched impact strength, +23°C	12.5	kJ/m ²	ISO 179/1eA
Izod notched impact strength	5	kJ/m ²	ISO 180/1A
Shore D hardness	65	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	55	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	80	°C	ISO 75-1/-2
Vicat softening temperature, A	149	°C	ISO 306
Vicat softening temperature, B	74	°C	ISO 306

Other properties	Value	Unit	Test Standard
Density	905	kg/m ³	ISO 1183

Characteristics**Processing**

Injection Molding