

SABIC SABIC® PP PCGH19 PP (Global)

Categories: [Polymer](#); [Thermoplastic](#); [Polypropylene \(PP\)](#)

Material Notes: SABIC® PP grades for healthcare applications are produced under controlled conditions resulting in high product quality, consistency and a high level of purity. SABIC® PP PCGH19 is typically used by our customers for injection molding of healthcare applications such as caps and closures, 3-part syringes and other thin walled parts. This grade offers a high stiffness combined with good flow properties. Due to its narrow molecular weight distribution it is typically used by our customers for thin walled, warpage critical applications. Compliance to regulations: SABIC® PP PCGH19 complies with the relevant monographs of the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USPVI). The product mentioned herein may not be used for medical healthcare devices or materials intended for temporary or permanent implementation in the human body. IMDS 7172624

Information provided by SABIC

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ASTM D1505
Melt Flow	19 g/10 min @Load 2.16 kg, Temperature 230 °C	19 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	71	71	ISO 868
Tensile Strength, Yield	37.0 MPa	5370 psi	ISO 527-2 1A
Elongation at Yield	9.0 %	9.0 %	Speed of testing: 50 mm/min; ISO 527-2 1A
Tensile Modulus	1.80 GPa	261 ksi	Speed of testing: 1 mm/min; ISO 527-2 1A
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	Flat wise (testbar 80*10*4mm); ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	Flat wise (testbar 80*10*4mm); ISO 75
Vicat Softening Point	94.0 °C	201 °F	at 50 N (VST/B); Temperature rate: 120°C/h; ISO 306
	152 °C	306 °F	at 10 N (VST/A); Temperature rate: 120°C/h; ISO 306

Descriptive Properties		
Anti static agent		False
Nucleating agent		False

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.