

SABIC® PP PCGH19

PP HOMOPOLYMER

DESCRIPTION

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.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	19	dg/min	ISO 1133
Density	905	kg/m³	ASTM D1505
FORMULATION			
Anti static agent	□	-	-
Nucleating agent	□	-	-
MECHANICAL PROPERTIES			
Tensile test			
stress at yield	37	MPa	ISO 527-2 1A
strain at yield ⁽¹⁾	9	%	ISO 527-2 1A
tensile modulus ⁽²⁾	1800	MPa	ISO 527-2 1A
Izod impact notched			
at 23 °C	3.0	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at 23 °C	4.0	kJ/m²	ISO 179/1eA
Hardness Shore D	71	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature ⁽³⁾			
at 0.45 MPa (HDT/B)	90	°C	ISO 75
at 1.80 MPa (HDT/A)	60	°C	ISO 75
Vicat Softening Temperature ⁽⁴⁾			
at 50 N (VST/B)	94	°C	ISO 306
at 10 N (VST/A)	152	°C	ISO 306

