

SABIC® PP PCGH19

Polypropylene Homopolymer

Saudi Basic Industries Corporation (SABIC)

Message:

PP Homopolymer for Healthcare

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 designed 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 excellent flow properties. Due to its narrow molecular weight distribution it is very suitable 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.

General Information			
Features	High purity		
	Rigidity, high		
	Homopolymer		
	Bending resistance		
	High liquidity		
	Narrow molecular weight distribution		
Uses	Thin wall parts		
	Shield		
	Shell		
	Medical/nursing supplies		
Agency Ratings	EP Unspecified Rating		
	USP Class VI		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	19	g/10 min	ISO 1133
230°C/5.0 kg	58	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	71		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	43.0	MPa	ISO 527-2

Fracture	30.0	MPa	ISO 527-2
Tensile Strain (Break)	700	%	ISO 527-2
Flexural Modulus	1900	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.5	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	2.5	kJ/m ²	ISO 180/4A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	98.0	°C	ISO 75-2/B
1.8 MPa, not annealed	53.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	152	°C	ISO 306/A
--	85.0	°C	ISO 306/B

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

