

## 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.

IMDS 7172624

### TYPICAL PROPERTY VALUES

Revision 20230111

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



- (1) Speed of testing: 50 mm/min
- (2) Speed of testing: 1 mm/min
- (3) Flat wise ( testbar 80\*10\*4mm)
- (4) Temperature rate: 120°C/h

### STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and /or high humidity as this could well speed up alteration and consequently loss of quality of the material and /or its packaging. Keep material completely dry for good processing.

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