

## SABIC® PP 527K

PP HOMOPOLYMER

### DESCRIPTION

SABIC® PP 527K is a leading grade typically used for products in thermoforming. Tailoring of the polymer architecture combined with effective nucleation resulted in a good balance of very high stiffness combined with excellent transparency. Its high crystallisation temperature is ideally suited for further line speed improvements. Moreover it is formulated with a combined processing and antistatic additive package.

Application:

SABIC® PP 527K is typically used in packaging for Fruit, Vegetables, Meat, Fish, Poultry and Ambient Food packaging.

Health, Safety and Food Contact regulations:

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site <http://www.sabic.com>. This product is not intended for and must not be used in any pharmaceutical/medical applications.

IMDS 7172624

### TYPICAL PROPERTY VALUES

Revision 20220411

| PROPERTIES                                        | TYPICAL VALUES | UNITS  | TEST METHODS |
|---------------------------------------------------|----------------|--------|--------------|
| <b>POLYMER PROPERTIES</b>                         |                |        |              |
| <b>Melt Flow Rate (MFR)</b>                       |                |        |              |
| at 230 °C and 2.16 kg                             | 3.0            | dg/min | ISO 1133     |
| <b>Density</b>                                    | 905            | kg/m³  | ASTM D1505   |
| <b>Molecular Weight Distribution</b>              | Broad          | -      | -            |
| <b>Isotacticity</b>                               | High           | -      | -            |
| <b>FORMULATION</b>                                |                |        |              |
| <b>Anti static agent</b>                          | ☑              | -      | -            |
| <b>Nucleating agent</b>                           | ☑              | -      | -            |
| <b>MECHANICAL PROPERTIES</b>                      |                |        |              |
| <b>Tensile test</b>                               |                |        |              |
| strain at yield <sup>(1)</sup>                    | 6              | %      | ISO 527-2 1A |
| stress at yield                                   | 40             | MPa    | ISO 527-2 1A |
| tensile modulus <sup>(2)</sup>                    | 2200           | MPa    | ISO 527-2 1A |
| <b>Izod impact notched</b>                        |                |        |              |
| at 23 °C                                          | 3.0            | kJ/m²  | ISO 180/1A   |
| <b>Charpy Impact Strength Notched</b>             |                |        |              |
| at 23 °C                                          | 4.5            | kJ/m²  | ISO 179/1eA  |
| <b>THERMAL PROPERTIES</b>                         |                |        |              |
| <b>Heat deflection temperature <sup>(3)</sup></b> |                |        |              |
| at 0.45 MPa (HDT/B)                               | 115            | °C     | ISO 75       |
| at 1.80 MPa (HDT/A)                               | 65             | °C     | ISO 75       |
| <b>Vicat Softening Temperature <sup>(4)</sup></b> |                |        |              |
| at 50 N (VST/B)                                   | 100            | °C     | ISO 306      |
| at 10 N (VST/A)                                   | 155            | °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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