

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 |
|---|-------------------------------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 230 °C and 2.16 kg | 3.0 | dg/min | ISO 1133 |
| Density | 905 | kg/m ³ | ASTM D1505 |
| Molecular Weight Distribution | Broad | - | - |
| Isotacticity | High | - | - |
| FORMULATION | | | |
| Anti static agent | <input checked="" type="checkbox"/> | - | - |
| Nucleating agent | <input checked="" type="checkbox"/> | - | - |
| MECHANICAL PROPERTIES | | | |
| Tensile test | | | |
| strain at yield ⁽¹⁾ | 6 | % | ISO 527-2 1A |
| stress at yield | 40 | MPa | ISO 527-2 1A |
| tensile modulus ⁽²⁾ | 2200 | MPa | ISO 527-2 1A |
| Izod impact notched | | | |
| at 23 °C | 3.0 | kJ/m ² | ISO 180/1A |
| Charpy Impact Strength Notched | | | |
| at 23 °C | 4.5 | kJ/m ² | ISO 179/1eA |
| THERMAL PROPERTIES | | | |
| Heat deflection temperature ⁽³⁾ | | | |
| at 0.45 MPa (HDT/B) | 115 | °C | ISO 75 |
| at 1.80 MPa (HDT/A) | 65 | °C | ISO 75 |
| Vicat Softening Temperature ⁽⁴⁾ | | | |
| 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.

DISCLAIMER

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