

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.

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