

SABIC® PP 511A

POLYPROPYLENE HOMOPOLYMER

DESCRIPTION

SABIC® PP 511A is a polypropylene homopolymer resin specifically designed for extrusion applications like spun bond and continuous filament spinning resulting in excellent non woven tensile properties. The narrow molecular weight distribution of SABIC® PP 511A is obtained by balanced controlled rheology. SABIC® PP 511A is compatible with all existing spun bond/continuous filament machine technologies producing different non woven compositions, produced with narrow distributed molecular weight polypropylene resins. SABIC® PP 511A has a special developed anti gas fading formulation to minimise discolouration of the fibers.

TYPICAL APPLICATIONS

SABIC® PP 511A is typically used for the production of non wovens and fibres used in: Diapers, feminine care, crop/flower protection, concrete reinforcement, protective clothing, ground stabilisation in civil applications like road and railway construction work, liners in automotive, apparel clothing and flooring.

TYPICAL PROPERTY VALUES

Revision 20170531

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 230 °C and 2.16 kg	25	dg/min	ISO 1133
Density	905	kg/m ³	ISO 1183
Molecular Weight Distribution	Narrow	-	-
Isotacticity	Medium	-	-
FORMULATION			
Gas fading stabilized	<input checked="" type="checkbox"/>	-	-
MECHANICAL PROPERTIES			
Tensile test			
tensile modulus ⁽¹⁾	1550	MPa	ISO 527-2 1A
stress at yield ⁽²⁾	34	MPa	ISO 527-2 1A
Tensile test			
strain at yield ⁽²⁾	11	%	ISO 527-2 1A

(1) Speed of testing: 1 mm/min

(2) Speed of testing: 50 mm/min

PROCESSING CONDITIONS

Typical processing conditions for 511A are:



Average extrusion temperature range may be kept at 210 - 250°C.

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

SABIC® PP 511A is suitable for food contact application. Material Safety Data Sheets (MSDS) and Product Safety Declarations are available on our Internet site <http://www.SABIC.com>. For additional specific information please contact SABIC local representative.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

This grade material is UL registered under File E111275 (www.ul.com).

IMDS 7172624

STORAGE AND HANDLING

Polypropylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PP resin within 6 months after delivery.

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC as referred to herein means any legal entity belonging to the group of companies headed by Saudi Arabia Basic Industries Corporation.