

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 20201211

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	25	dg/min	ISO 1133
Density	905	kg/m³	ASTM D1505
Molecular Weight Distribution	Narrow	-	-
Isotacticity	Medium	-	-
FORMULATION			
Gas fading stabilized	☒	-	SABIC method
MECHANICAL PROPERTIES			
Tensile test			
stress at yield	34	MPa	ISO 527-2 1A
tensile modulus ⁽¹⁾	1550	MPa	ISO 527-2 1A
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.

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.

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