

SABIC® PP 511A

POLYPROPYLENE HOMOPOLYMER
REGION ASIA

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 20211203

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230°C and 2.16kg	25	g/10 min	ASTM D1238
Density			
at 23°C	905	kg/m ³	ASTM D792
MECHANICAL PROPERTIES			
Flexural Modulus (1% Secant)	1520	MPa	ASTM D790 A
Izod Impact Strength			
notched, at 23°C	22	J/m	ASTM D256
Rockwell Hardness, R-Scale	104	-	ASTM D785
FILM PROPERTIES			
Tensile Properties ⁽¹⁾			
stress at yield	35	MPa	ASTM D638
strain at yield	11	%	ASTM D638
THERMAL PROPERTIES			
Vicat Softening Temperature	155	°C	ASTM D1525
Heat deflection temperature			
at 455kPa	106	°C	ASTM D638

(1) Based on injection molded specimens.

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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