



# SABIC<sup>®</sup> PP 511A

## POLYPROPYLENE HOMOPOLYMER

### DESCRIPTION

SABIC<sup>®</sup> 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<sup>®</sup> PP 511A is obtained by balanced controlled rheology. SABIC<sup>®</sup> 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<sup>®</sup> PP 511A has a special developed anti gas fading formulation to minimise discolouration of the fibers.

### TYPICAL APPLICATIONS

SABIC<sup>®</sup> 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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230 °C and 2.16 kg	25	dg/min	ISO 1133
<b>Density</b>	905	kg/m <sup>3</sup>	ASTM D1505
<b>Molecular Weight Distribution</b>	Narrow	-	-
<b>Isotacticity</b>	Medium	-	-
<b>FORMULATION</b>			
<b>Gas fading stabilized</b>	<input checked="" type="checkbox"/>	-	SABIC method
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield	34	MPa	ISO 527-2 1A
tensile modulus <sup>(1)</sup>	1550	MPa	ISO 527-2 1A
strain at yield <sup>(2)</sup>	11	%	ISO 527-2 1A

(1) Speed of testing: 1 mm/min

(2) Speed of testing: 50 mm/min