

SABIC® PP 519A

POLYPROPYLENE HOMOPOLYMER

DESCRIPTION

SABIC® PP 519A is a polypropylene homopolymer resin specifically designed to enable optimised production speed of very fine filament titre resulting in an excellent balance of mechanical properties and softness. The rheological performance of SABIC® PP519A is providing the potential to optimise production efficiency especially for fibre production characterised by consistent high speed and low non wovens weights at reduced temperatures. SABIC® PP 519A has a very narrow molecular weight distribution. SABIC® PP 519A is compatible with all existing spun bond machine technologies producing different non woven compositions. SABIC® PP 519A has a special developed anti gas fading formulation to minimise discolouration of the fibers.

TYPICAL APPLICATIONS

SABIC® PP 519A is typically used for the production of spunbond non wovens and fibers used in: Diapers, feminine care, apparel, crop/flower protection, concrete reinforcement, building, geo-textiles.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 230 °C and 2.16 kg	35	dg/min	ISO 1133
Density	905	kg/m ³	ASTM D1505
Molecular Weight Distribution	Narrow	-	-
Isotacticity	Medium	-	-
FORMULATION			
Gas fading stabilized	<input checked="" type="checkbox"/>	-	SABIC method
MECHANICAL PROPERTIES			
Tensile test			
strain at yield ⁽¹⁾	10	%	ISO 527-2 1A
tensile modulus ⁽²⁾	1500	MPa	ISO 527-2 1A
stress at yield	30	MPa	ISO 527-2 1A

(1) Speed of testing: 50 mm/min

(2) Speed of testing: 1 mm/min

PROCESSING CONDITIONS

Processing conditions: SABIC® PP 519A can be processed at typical processing conditions.

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