

SABIC® PP 519A

Polypropylene Homopolymer
Saudi Basic Industries Corporation (SABIC)

Message:

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 PP519A can also be used for continuous filament spinning like partially oriented yarn (POY). SABIC PP 519A has a very narrow molecular weight distribution. SABIC PP 519A is compatible with all existing spun bond/continuous filament machine technologies producing different non woven compositions. SABIC PP 519A has a special developed anti gas fading formulation to minimise discolouration of the fibres.

Applications:
SABIC PP 519A is typically used for the production of non wovens and fibres used in: Diapers, feminine care, apparel, crop/flower protection, concrete reinforcement, building, geo-textiles.
The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
UL YellowCard	E111275-306883		
Additive	Anti-gas fading		
Features	Gas-fading Resistant		
	Homopolymer		
	Medium Isotactic		
	Narrow Molecular Weight Distribution		
	Soft		
Uses	Agricultural Applications		
	Construction Applications		
	Fabrics		
	Fibers		
	Filaments		
	Nonwovens		
	Personal Care		
	Textile Applications		
UL File Number	E111275		
Processing Method	Extrusion		
	Fiber (Spinning) Extrusion		
	Filament Extrusion		
	Filament Winding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ASTM D1238, ISO 1133

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1550	MPa	ASTM D638
--	1500	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	31.0	MPa	ASTM D638
Yield	30.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	10	%	ASTM D638
Yield	10	%	ISO 527-2/1A/50

NOTE

1. 1.0 mm/min
2. 50 mm/min
3. 50 mm/min

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