

SABIC® PP 511A

Polypropylene Homopolymer
Saudi Basic Industries Corporation (SABIC)

Message:

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 fibres.

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.

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 | Controlled Rheology | | |
| | Gas-fading Resistant | | |
| | Homopolymer | | |
| | Medium Isotactic | | |
| | Narrow Molecular Weight Distribution | | |
| Uses | Agricultural Applications | | |
| | Automotive Applications | | |
| | Fabrics | | |
| | Fibers | | |
| | Filaments | | |
| | Flooring Maintenance/Repair | | |
| | Liners | | |
| | Nonwovens | | |
| | Personal Care | | |
| | Spun Bonding | | |
| 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) | 25 | g/10 min | ASTM D1238, ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | | | |
| 1% Secant ¹ | 1600 | MPa | ASTM D638 |
| -- | 1550 | MPa | ISO 527-2/1A/1 |
| Tensile Strength | | | |
| Yield ² | 35.0 | MPa | ASTM D638 |
| Yield | 34.0 | MPa | ISO 527-2/1A/50 |
| Tensile Elongation | | | |
| Yield ³ | 11 | % | ASTM D638 |
| Yield | 11 | % | ISO 527-2/1A/50 |
| NOTE | | | |
| 1. | 1.0 mm/min | | |
| 2. | 50 mm/min | | |
| 3. | 50 mm/min | | |

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