

TECHNICAL DATA SHEET

RILSAN® MB 3610 NAT

POLYAMIDE 11 PELLET

RILSAN® MB 3610 NAT is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This natural grade is plasticized and specially designed for pneumatic applications. It combines very high flexibility with good impact resistance.

DESIGNATION

PA11-(FR)

MAIN APPLICATIONS

- Hoses & Tubes - Pneumatics
- Hoses & Tubes
- Industry - Distribution
- Auto - Others Extrusion

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

ADDITIVES

- Flame retarding agent
- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	4 cm ³ /10min	ISO 1133

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Hardness, Shore D, 15 s	- / 53	ISO 868
Charpy unnotched impact strength, 23°C (73°F)	- / No Break	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	- / No Break	ISO 179 1eU
Tensile modulus, 23°C (73°F), 1 mm/min	210 / 210 MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	No Break / No Break	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 10 kJ/m ²	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 200 MPa	ISO 178

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditioned.

THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melting temperature, 10°C/min	188 °C	ISO 11357-1/-3

ELECTRICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Volumic (transversal) resistivity, 23°C (73,4°F)	- / 1.9E+11 ohm/m	IEC 62631-3-1

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.

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COND: Conditioned.

OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.45 %	ISO 62
Water absorption, 23°C (73°F), immersion, equilibrium	1.1 %	ISO 62

PACKAGING

This grade is delivered dried in sealed packaging ready to be processed. Available packaging:

- 25 kg / 55 lb bags

SHELF LIFE

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

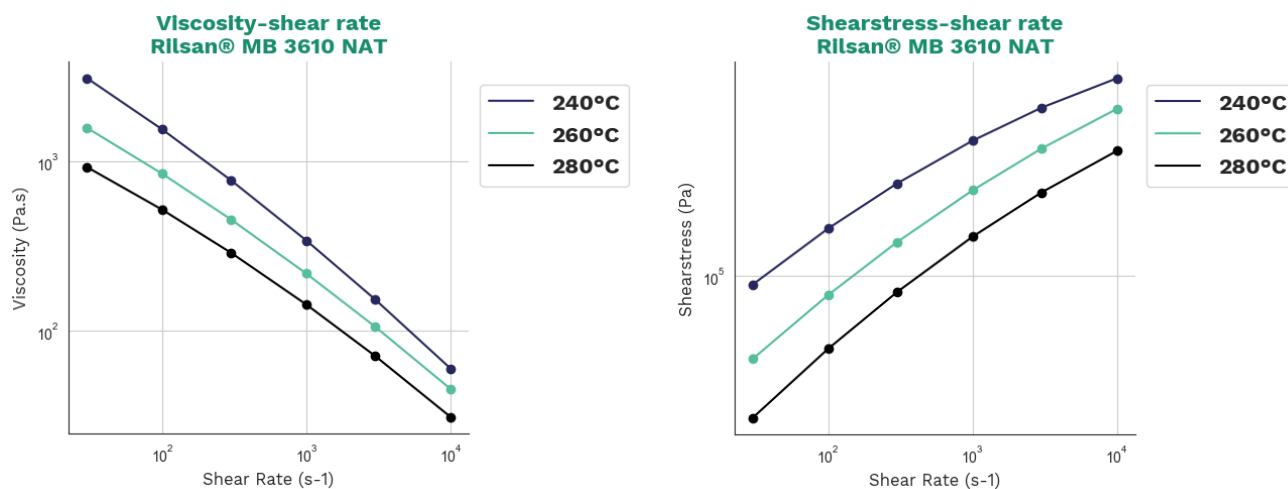
PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 250°C / 270°C / 290°C (480°F / 520°F / 555°F)
- Typical mold temperature - Injection molding: 40-90°C (105-195°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

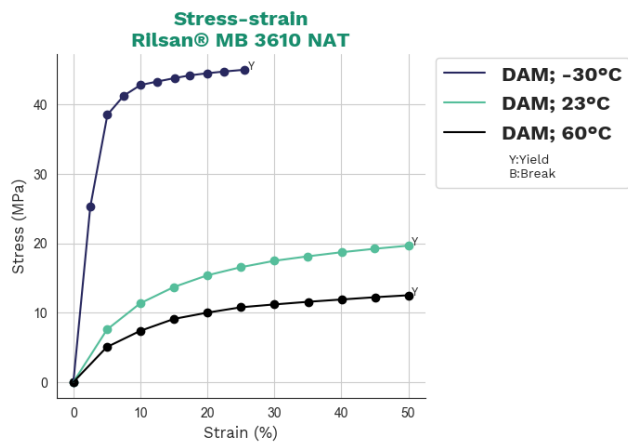
SPECIAL CHARACTERISTICS

- Bio-based
- Halogen Free Flame Retardant (HFFR)

DIAGRAMS



RILSAN® MB 3610 NAT



Headquarter: Arkema France
420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
T +33 (0)1 49 00 80 80

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