

TECHNICAL DATA SHEET

RILSAN® BZM 30 O TL

POLYAMIDE 11 PELLET

RILSAN® BZM 30 O TL is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This natural glass fiber reinforced grade is designed for injection molding.

Designation : ISO 16396 - PA11, GF30, M1G1HLR, C18-070

DESIGNATION

PA11-GF30

MAIN APPLICATIONS

- Industry - Others
- Industry - Distribution
- Auto - Fluid Connectors
- Heavy Truck - Air Brake Connectors

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

ADDITIVES

- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

プロパティ	価値	テスト基準
Shrinkage, Parallel (t+24h)	0.2 %	ISO 294-4
Shrinkage, Normal (t+24h)	0.8 %	ISO 294-4
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	9 cm ³ /10min	ISO 1133

MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Tensile modulus, 23°C (73°F), 1 mm/min	6300 / 6300 MPa	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 5560 MPa	ISO 178
Charpy unnotched impact strength, 23°C (73°F)	- / 89 kJ/m ²	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	- / 96 kJ/m ²	ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	- / 24 kJ/m ²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 17 kJ/m ²	ISO 179 1eA
Hardness, Shore D, 15 s	- / 74	ISO 868

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

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THERMAL PROPERTIES

プロパティ	価値	テスト基準
Melting temperature, 10°C/min	189 °C	ISO 11357-1/-3
Vicat softening temperature, 50N at 50°C/h	170 °C	ISO 306
Heat deflection temperature, 0.45 MPa	180 °C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	175 °C	ISO 75-1/-2

ELECTRICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Surface resistivity, 23°C (73,4°F)	- / 1.0E+14 ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73,4°F)	- / 7.0E+11 ohm/m	IEC 62631-3-1
Comparative tracking index, 23°C (73,4°F)	- / 600	IEC 60112
Dielectric stress, 23°C (73,4°F)	- / 45	IEC 60243-1
Relative permittivity, 100Hz	- / 4	IEC 60250
Relative permittivity, 1Mhz	- / 4	IEC 60250
Dissipation factor, 100Hz	- / 578	IEC 60250
Dissipation factor, 1Mhz	- / 578	IEC 60250

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OTHER PROPERTIES

プロパティ	価値	テスト基準
Specific gravity, 23°C (73°F)	1.25 g/cm ³	ISO 1183-1
Bio-based carbon content, Measured	100 %	ASTM D6866
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.5 %	ISO 62
Water absorption, 23°C(73°F), immersion, equilibrium	1.4 %	ISO 62

包装

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

- 25 kg / 55 lb bags

賞味期限

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:

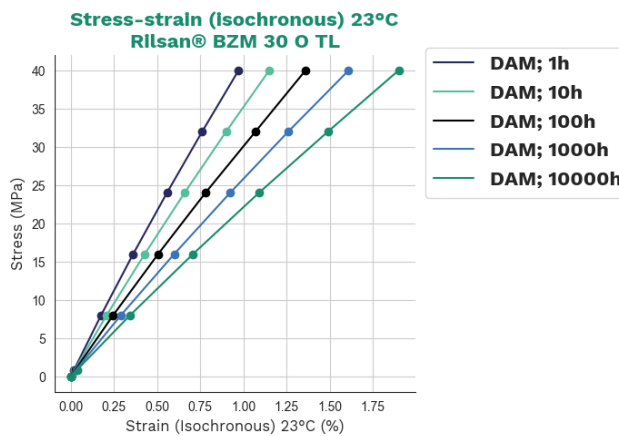
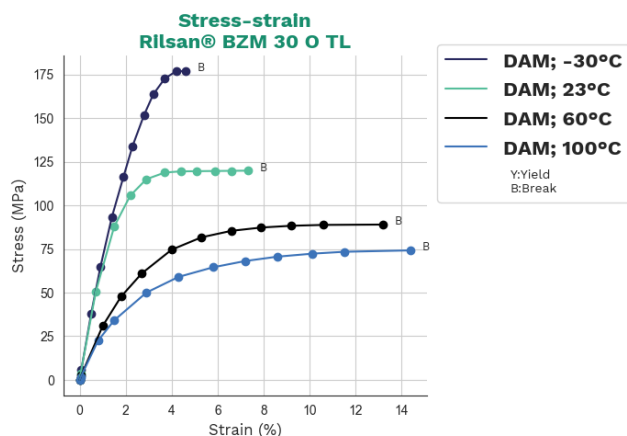
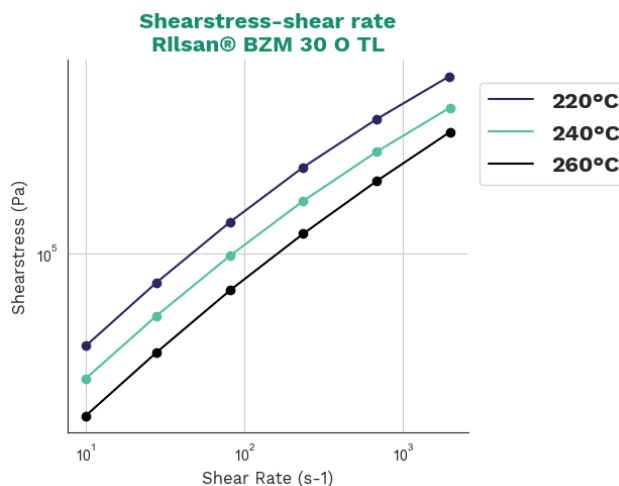
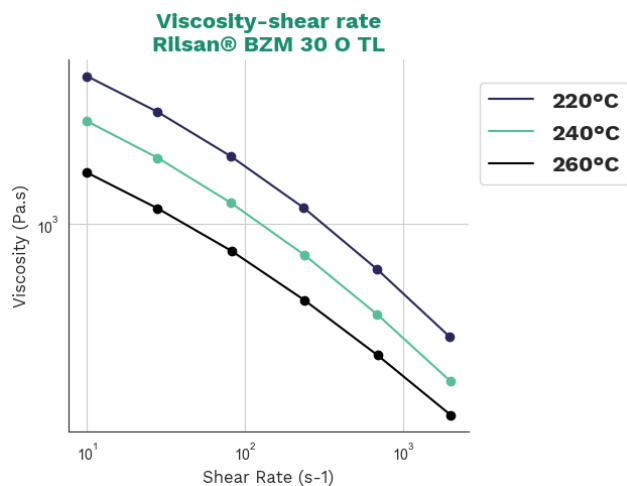
- 典型的な熔融温度 (最小 / 推奨 / 最大) - 射出成形: 250°C / 270°C / 290°C (480°F / 520°F / 555°F)
- 典型的な成型温度 - 射出成形: 40-90°C (105-195°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

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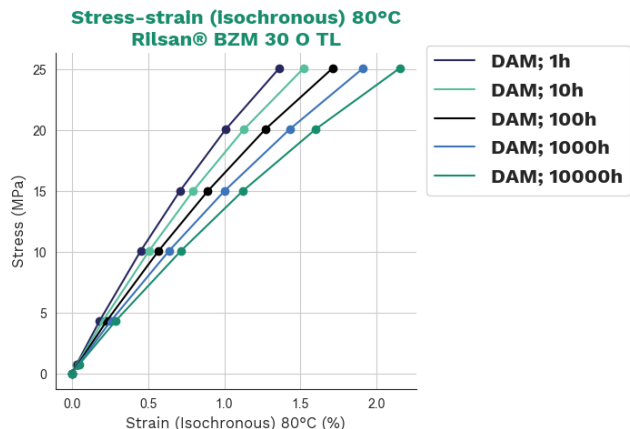
SPECIAL CHARACTERISTICS

- Bio-based
- Low oligomers

DIAGRAMS



RILSAN® BZM 30 O TL



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