

## TECHNICAL DATA SHEET

# RILSAN® BZM 8 0 T3L

## POLYAMIDE 11 PELLET

RILSAN® BZM 8 0 T3L 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. It has a superior color stability, which makes particularly adapted to consumer applications.

**Designation :** ISO 16396 - PA11, GF8, M1G1HLR, C18-030

### DESIGNATION

PA11-GF8

### MAIN APPLICATIONS

- Footwear - Outsole/Components
- Outdoor - Equipment - Growth
- Outdoor - Equipment/Bicycle/Racket
- Other Sport Equipment
- Industry - Distribution
- Auto - Fluid Connectors

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Injection Molding

### ADDITIVES

- Heat Stabilized
- Light Stabilized

## RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Shrinkage, Parallel (t+24h)	1.1 %	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)	15 cm <sup>3</sup> /10min	ISO 1133

## MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Flexural modulus, 23°C (73°F)	- / 1850 MPa	ISO 178
Tensile modulus, 23°C (73°F), 1 mm/min	2200 / 2200 MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	/ 26 %	ISO 527-1/-2
Stress at break, 23°C (73°F), 50 mm/min	/ 56 MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 12 kJ/m <sup>2</sup>	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 7.8 kJ/m <sup>2</sup>	ISO 179 1eA
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
Hardness, Shore D, 15 s	- / 73	ISO 868

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

# RILSAN® BZM 8 0 T3L

## THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melting temperature, 10°C/min	189 °C	ISO 11357-1/-3

## OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Specific gravity, 23°C (73°F)	1.08 g/cm <sup>3</sup>	ISO 1183-1
Bio-based carbon content, Measured	100 %	ASTM D6866

## 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.

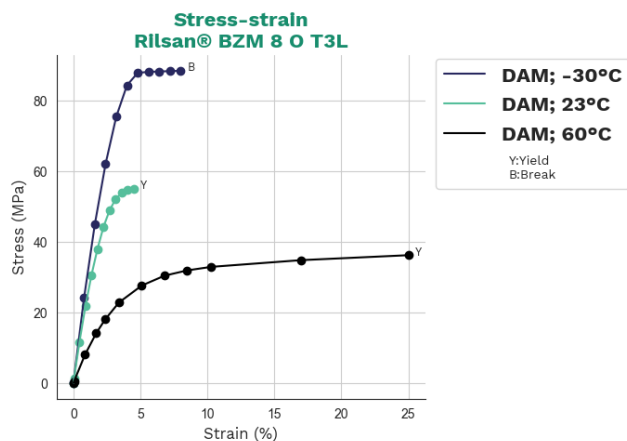
## PROCESSING CONDITIONS:

- 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
- Low oligomers

## DIAGRAMS



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

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.  
Arkema France, a French société anonyme registered at the Trade and Companies Register of Nanterre under the number 319 632 790

**ARKEMA**