RILSAN®

TECHNICAL DATA SHEET

RILSAN® BMN G8 TLDA

POLYAMIDE 11 PELLET

RILSAN® BMN G8 TLDA is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This black grade with improved friction properties is designed for injection molding and approved for drinking water contact.

Designation : ISO 16396 - PA11, CDx, M1G1HLRS, C22-010

DESIGNATION

PA11

MAIN APPLICATIONS

- Hoses & Tubes
- Industry - Distribution

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Lubricants
- Release agent

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Shrinkage, Parallel (t+24h)	1.8 %	ISO 294-4
Shrinkage, Normal (t+24h)	1.9 %	ISO 294-4

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Hardness, Shore D, 15 s	- / 72	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
Nominal strain at break, 23°C (73°F), 50 mm/min	- / > 50 %	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 10 %	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 40 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	- / 1500 MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 14 kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 11 kJ/m2	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 1240 MPa	ISO 178

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

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THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melting temperature, 10°C/min	186 °C	ISO 11357-1/-3

OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Specific gravity, 23°C (73°F)	1.03 g/cm³	ISO 1183-1

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: 210°C / 230°C / 260°C (410°F / 445°F / 500°F)
- Typical mold temperature - Injection molding: 20-60°C (70-140°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

SPECIAL CHARACTERISTICS

- Bio-based
- Low oligomers

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