RILSAN®

TECHNICAL DATA SHEET

RILSAN® BESN BLACK P20 TL

POLYAMIDE 11 PELLET

RILSAN® BESN BLACK P20 TL is a polyamide 11 compound. It is manufactured from a renewable and sustainable source (castor oil). This plasticized grade is designed for tube extrusion, it's a market reference in the automotive fluid transfer line applications.

Designation : **ISO 16396 - PA11-P, EG1HL, C22-005**

DESIGNATION

PA11-P

MAIN APPLICATIONS

- **Auto - Diesel Lines**
- **Auto - Water Cooling Circuit**
- **Auto - Gasoline Lines**
- **Auto - CNG-LPG-LNG Lines & Tanks**
- **Auto - SCR Lines & Tanks**
- **Auto - Vacuum & Blow By Lines**
- **Heavy Truck - Air Brake Lines**

DELIVERY FORM

- **Pellets**

TRANSFORMATION PROCESSES

- **Extrusion - General**
- **Tube Extrusion**

ADDITIVES

- **Heat Stabilized**
- **Light Stabilized**
- **Plasticizer**

MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Tensile modulus, 23°C (73°F), 1 mm/min	580 / 510 MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	> 50 / > 50 %	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 490 MPa	ISO 178
Charpy unnotched impact strength, 23°C (73°F)	No break / No Break	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	No break / No Break	ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	- / 70 kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 10 kJ/m2	ISO 179 1eA

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

THERMAL PROPERTIES

プロパティ	価値	テスト基準
Melting temperature, 10°C/min	182 °C	ISO 11357-1/-3
Heat deflection temperature, 0.45 MPa	135 °C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	47 °C	ISO 75-1/-2

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OTHER PROPERTIES

プロパティ	価値	テスト基準
Water absorption, 23°C(73°F), immersion, equilibrium	1.8 %	ISO 62
Specific gravity, 23°C (73°F)	1.04 g/cm³	ISO 1183-1

包装

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

- 25 kg / 55 lb bags
- 550 kg rigid containers

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:

- 典型的な溶融温度 (最小 / 推奨 / 最大) - 射出成形: 230°C / 250°C / 270°C (445°F / 480°F / 520°F)
- 典型的な金型温度 - 射出成形: 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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