

TECHNICAL DATA SHEET

RILSAN® BESN BLACK P210 TL

POLYAMIDE 11 PELLET

RILSAN® BESN BLACK P210 TL is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This plasticized and impact-modified grade is designed for tube extrusion, it's a market reference to produce air brake tubing (PHLY) & automotive fluid transfer lines (incl. fuel & cooling).

Designation : ISO 16396 - PA11-IP, EG1HL, C22-007

DESIGNATION

PA11-IP

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	610 / 520 MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	29 / 29 MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	25 / 25 %	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)	- / 525 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)	- / 76 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.

RILSAN® BESN BLACK P210 TL

THERMAL PROPERTIES

プロパティ	価値	テスト基準
Melting temperature, 10°C/min	184 °C	ISO 11357-1/-3
Heat deflection temperature, 0.45 MPa	110 °C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	45 °C	ISO 75-1/-2

OTHER PROPERTIES

プロパティ	価値	テスト基準
Specific gravity, 23°C (73°F)	1.03 g/cm ³	ISO 1183-1
Bio-based carbon content, Measured	89 %	ASTM D6866

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

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.com](https://www.arkema.com)

ARKEMA