

TECHNICAL DATA SHEET

RILSAN® BESN BLACK P212 CTL

POLYAMIDE 11 PELLET

RILSAN® BESN BLACK P212 CTL is a polyamide 11 compound. It produced from a renewable & sustainable source (castor oil). This plasticized and impact-modified electrostatic discharge (ESD) grade is specially designed for conductive multi-layer fuel line applications.

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

DESIGNATION

PA11-IP

MAIN APPLICATIONS

- Auto - Water Cooling Circuit
- Auto - Gasoline 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 | 705 / 705 MPa | ISO 527-1/-2 |
| Yield stress, 23°C (73°F), 50 mm/min | 31 / 31 MPa | ISO 527-1/-2 |
| Yield strain, 23°C (73°F), 50 mm/min | - / 45 % | 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) | - / 645 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) | No Break / No Break | ISO 179 1eA |
| Charpy notched impact strength, -30°C (-22°F) | - / 9 kJ/m2 | ISO 179 1eA |
| Hardness, Shore D, 15 s | - / 66 | ISO 868 |

*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 |

RILSAN® BESN BLACK P212 CTL

OTHER PROPERTIES

| プロパティ | 価値 | テスト基準 |
|-------------------------------|------------------------|------------|
| Specific gravity, 23°C (73°F) | 1.16 g/cm ³ | ISO 1183-1 |

包装

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

- 20 kg / 44 lb bags
- 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
- Electrostatic discharge (ESD)
- 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