

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

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Plasticizer

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
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.

속성	값	테스트 표준
Melting temperature, 10°C/min	182 °C	ISO 11357-1/-3

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OTHER PROPERTIES

속성	값	테스트 표준
Specific gravity, 23°C (73°F)	1.16 g/cm ³	ISO 1183-1

PACKAGING

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

- 21 kg / 44 lb bags
- 26 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: 230°C / 250°C / 270°C (445°F / 480°F / 520°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
- Electrostatic discharge (ESD)
- Low oligomers

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