

TECHNICAL DATA SHEET

RILSAN® EVOLUTION ENO P210 TL

POLYAMIDE ALLOY PELLET

RILSAN® EVOLUTION ENO P210 TL is a polyamide 11 compound. It is partially produced from a renewable & sustainable source (castor oil). This grade is designed for high pressure fuel contact applications.

DESIGNATION

PA*

MAIN APPLICATIONS

- Auto - In Tank & Fuel Venting Lines

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Plasticizer

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
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
Yield strain, 23°C (73°F), 50 mm/min	- / 39 %	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	32 / 32 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	400 / 400 MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 24 kJ/m ²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 3 kJ/m ²	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 450 MPa	ISO 178

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

THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melting temperature, 10°C/min	215 °C	ISO 11357-1/-3

OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Specific gravity, 23°C (73°F)	1.08 g/cm ³	ISO 1183-1

PACKAGING

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

- 25 kg / 55 lb bags

RILSAN® EVOLUTION ENO P210 TL

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: 250°C / 270°C / 290°C (480°F / 520°F / 555°F)
- Typical mold temperature - Injection molding: 40-90°C (105-195°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

SPECIAL CHARACTERISTICS

- Bio-based

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