

TECHNICAL DATA SHEET

RILSAN® HT CESV BLACK P010 TL

POLYPHTALAMIDE PELLET

RILSAN® HT CESV BLACK P010 TL is polyphthalamide compound. It is partially produced from a renewable & sustainable source (castor oil). This flexible grade with outstanding thermal & chemical resistance (incl. unique water coolant resistance) is typically used to replace metal or rubber parts in very demanding automotive fluid transfer lines.

Designation : ISO 16396 - PA10T/X-I, EG1HL, C16-010

DESIGNATION

PA10T/X-I

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Blow molding
- Extrusion - General
- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

속성	값	테스트 표준
Melt volume flow rate (MVR), 300°C / 5kg (572°F / 11 lb)	1.9 cm³/10min	ISO 1133

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
Tensile modulus, 23°C (73°F), 1 mm/min	1050 / 1040 MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	34 / 32 MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	6.2 / 6.6 %	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)	- / 987 MPa	ISO 178
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
Charpy notched impact strength, 23°C (73°F)	- / 84 kJ/m²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 16 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.

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속성	값	테스트 표준
Glass transition temperature, 10°C/min	82 °C	ISO 11357-1/-2
Heat deflection temperature, 0.45 MPa	82 °C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	66 °C	ISO 75-1/-2
Melting temperature, 10°C/min	260 °C	ISO 11357-1/-3

OTHER PROPERTIES

속성	값	테스트 표준
Bio-based carbon content, Measured	48 %	ASTM D6866
Specific gravity, 23°C (73°F)	1.05 g/cm ³	ISO 1183-1

PACKAGING

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

- 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.

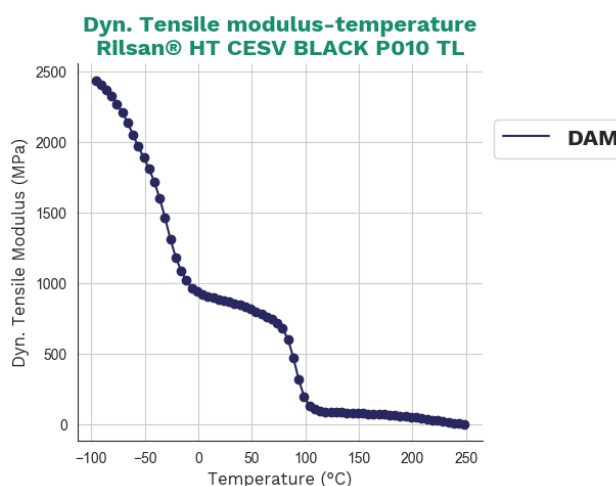
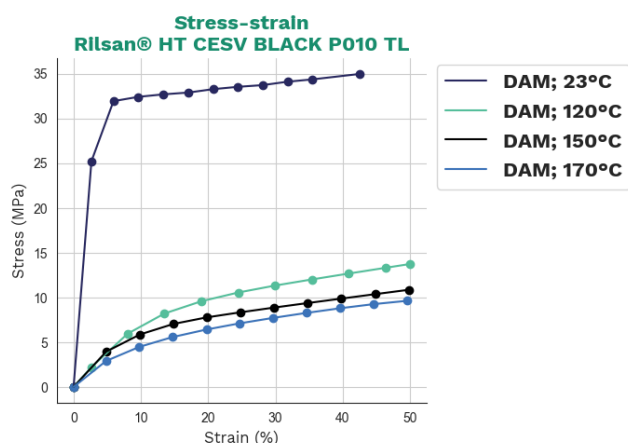
PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 270°C / 290°C / 310°C (520°F / 555°F / 590°F)
- Typical mold temperature - Injection molding: 90-110°C (195-230°F)
- Drying time and temperature: 100-110°C (210-230°F) / 4-8 hours

SPECIAL CHARACTERISTICS

- Bio-based

DIAGRAMS



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