

TECHNICAL DATA SHEET

RILSAN® CLEAR G850 RNEW® MED

AMORPHOUS POLYAMIDE PELLET

RILSAN® CLEAR G850 RNEW® MED is a transparent amorphous polyamide. It is partially produced from a renewable and sustainable source (castor oil). This grade with very high purity is approved in medical applications. Upon request, letters regarding USP Class VI compliance can be provided.

Designation : ISO 16396 - PA, G1HT, C14-020

DESIGNATION

PA*

MAIN APPLICATIONS

- Health - Reusable - Components
- Health - Reusable - Mask

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

ADDITIVES

- Heat Stabilized

RHEOLOGICAL PROPERTIES

プロパティ	価値	テスト基準
Shrinkage, Parallel (t+24h)	0.9 %	ISO 294-4
Shrinkage, Normal (t+24h)	0.9 %	ISO 294-4
Melt volume flow rate (MVR), 275°C / 2.16 kg (527°F / 4.4 lb)	4.4 cm ³ /10min	ISO 1133

MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Hardness, Shore D, 15 s	- / 80	ISO 868
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
Nominal strain at break, 23°C (73°F), 50 mm/min	> 50 / > 50 %	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	8.2 / 8.6 %	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	64 / 58 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	1680 / 1640 MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 8.5 kJ/m ²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	8.6 / 11.4 kJ/m ²	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 1600 MPa	ISO 178

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

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THERMAL PROPERTIES

プロパティ	価値	テスト基準
Glass transition temperature, 10°C/min	145 °C	ISO 11357-1/-2
Heat deflection temperature, 0.45 MPa	135 °C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	120 °C	ISO 75-1/-2

OTHER PROPERTIES

プロパティ	価値	テスト基準
Bio-based carbon content, Measured	45 %	ASTM D6866
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	1.7 %	ISO 62
Water absorption, 23°C(73°F), immersion, equilibrium	4 %	ISO 62
Specific gravity, 23°C (73°F)	1.01 g/cm ³	ISO 1183-1

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:

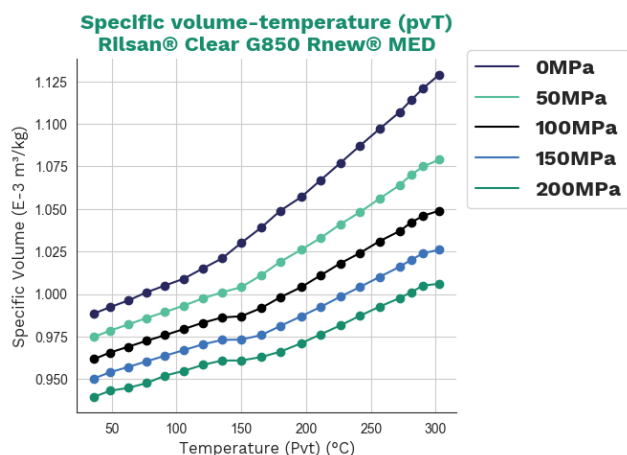
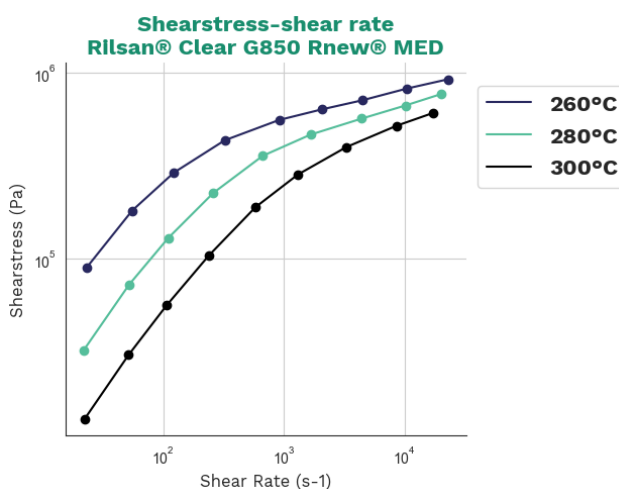
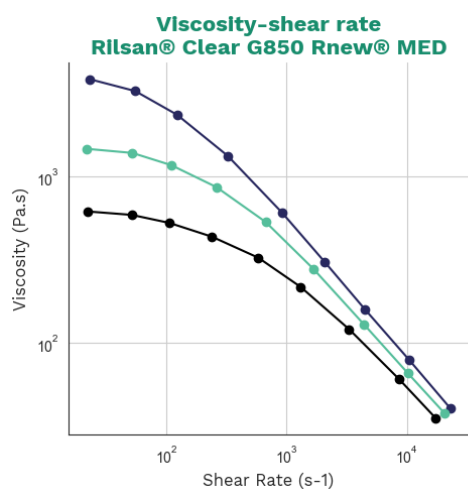
- 典型的な溶融温度 (最小 / 推奨 / 最大) - 射出成形: 260°C / 280°C / 300°C (500°F / 535°F / 570°F)
- 典型的な金型温度 - 射出成形: 20-80°C (70-175°F)
- Drying time and temperature: 90°C (195°F) / 4-6 hours

SPECIAL CHARACTERISTICS

- Bio-based
- Transparent

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DIAGRAMS



Headquarter: Arkema France
420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
T +33 (0)1 49 00 80 80

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