

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

TYPE

PA*

MAIN APPLICATIONS

- 건강 - 재사용 - 구성품
- 건강 - 재사용 - 마스크

배송 방식

- 펠릿

가공 공정

- 사출성형

첨가제

- 열 안정화

RHEOLOGICAL PROPERTIES

속성	값	UNIT	테스트 표준
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	cm³/10min	ISO 1133

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	UNIT	테스트 표준
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/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	8.6 / 11.4	kJ/m2	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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속성	값	UNIT	테스트 표준
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

속성	값	UNIT	테스트 표준
Bio-based carbon content, Measured	45	%	
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/cm³	ISO 1183-1

포장

Available packaging:

- 25 kg / 55 lb 가봉

보관수명

납품일로부터 2년 후, 적절히 보관될 때 (밀봉 봉지, 적절한 습도, 자외선 차단 및 온도). 이 한도를 초과하는 모든 사용에 대해서는 기술 서비스팀에 문의하십시오.

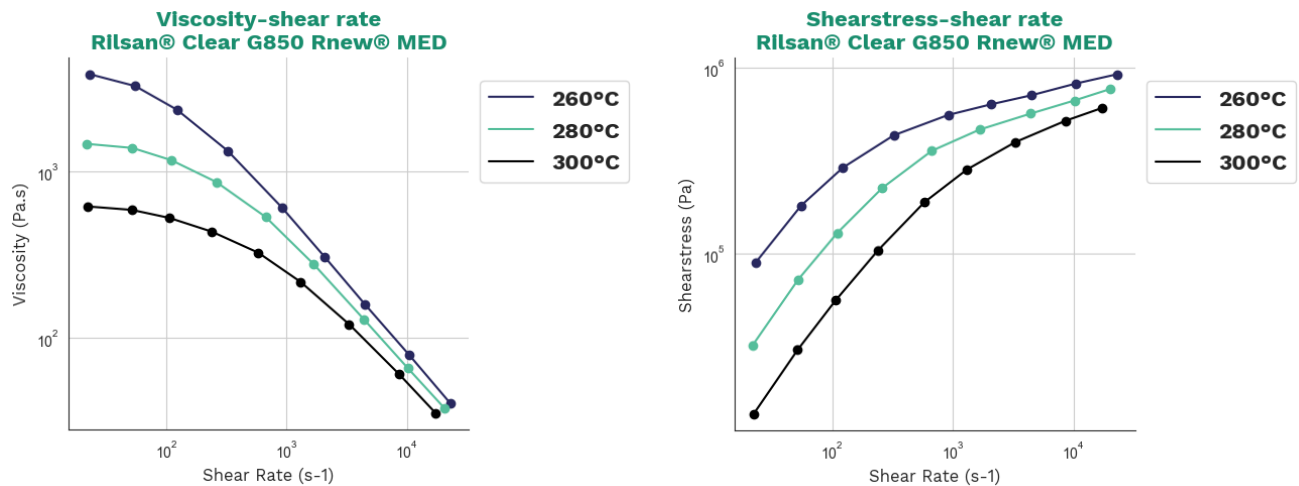
PROCESSING CONDITIONS:

- 일반적인 용융 온도(최소/권장/최대) - 사출 성형: 260°C / 280°C / 300°C (500°F / 535°F / 570°F)
- 일반적인 급형 온도 - 사출 성형: 20-80°C (70-175°F)
- 건조 시간 및 온도: 90°C (195°F) / 4-6 시간

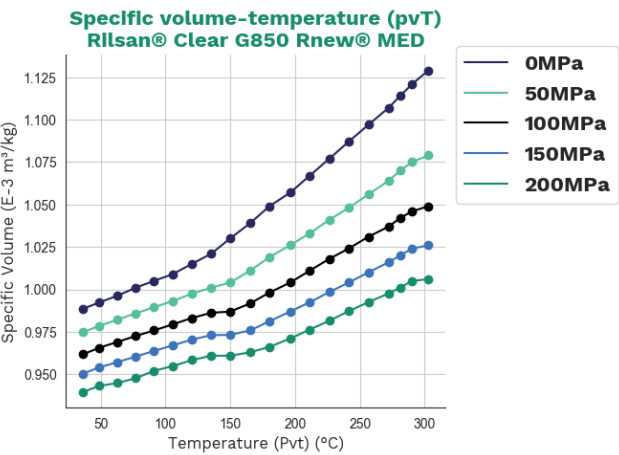
특징

- 생물 기반
- 투명

DIAGRAMS



RILSAN® CLEAR G850 RNEW® MED



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