

TECHNICAL DATA SHEET RILSAN® KNO T3L

POLYAMIDE 11 PELLET

RILSAN® KNO is a polyamide 11 resin. It is produced from a renewable & sustainable source (castor oil). This natural grade is specially designed for injection molding.

TYPE

PA11

MAIN APPLICATIONS

- 장비

배송 방식

- 펠릿

가공 공정

- 사출성형

RHEOLOGICAL PROPERTIES

속성	값	UNIT	테스트 표준
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	25	cm³/10min	ISO 1133
Shrinkage, Parallel (t+24h)	1.29	%	ISO 294-4
Shrinkage, Normal (t+24h)	1.3	%	ISO 294-4

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	UNIT	테스트 표준
Flexural modulus, 23°C (73°F)	1200 / 1000	MPa	ISO 178
Tensile modulus, 23°C (73°F), 1 mm/min	1300 / 1100	MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	42 / 40	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	24 / 26	%	ISO 527-1/-2
Stress at break, 23°C (73°F), 50 mm/min	64 / 64	MPa	ISO 527-1/-2
Strain at break, 23°C (73°F), 50 mm/min	> 280 / > 280	%	ISO 527-1/-2
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)	9 / 11	kJ/m²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	10 / 10	kJ/m²	ISO 179 1eA
(H18/1000g/1000cycles)	13 / -	mg	ISO 9352
Hardness, Shore D, Instantaneous	77 / 74		ISO 868
Hardness, Shore D, 15 s	71 / 70		ISO 868

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

RILSAN® KNO T3L

속성	값	UNIT	테스트 표준
Melting temperature, 10°C/min	188	°C	ISO 11357-1/-3
Heat deflection temperature, 0.45 MPa	113	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	43	°C	ISO 75-1/-2

OTHER PROPERTIES

속성	값	UNIT	테스트 표준
Bio-based carbon content, Measured	100	%	
Specific gravity, 23°C (73°F)	1.025	g/cm³	ISO 1183-1
Water absorption, 23°C (73°F), immersion, equilibrium	1.8	%	ISO 62
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.8	%	ISO 62

포장

Available packaging:

- 25 kg / 55 lb 가방

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: 240°C / 250°C / 260°C (465°F / 480°F / 500°F)
- 일반적인 급형 온도 - 사출 성형: 40-80°C (105-175°F)
- 건조 시간 및 온도: 80-90°C (175-195°F) / 4-6 시간

특징

- 생물 기반

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