

TECHNICAL DATA SHEET
RILSAN® BMN Y TLD

POLYAMIDE 11 PELLET

RILSAN® BMN G8 TLDA is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This black grade with improved friction properties is designed for injection molding and approved for drinking water contact.

Designation : ISO 16396 - PA11, CDx, M1G1HLRS, C22-010

TYPE

PA11

MAIN APPLICATIONS

- 모노 필라멘트
- 산업 - 기타
- 산업 - 유통

배송 방식

- 펠릿

가공 공정

- 사출성형

첨가제

- 열 안정화
- 빛 안정제
- 방출제

RHEOLOGICAL PROPERTIES

속성	값	UNIT	테스트 표준
Melt volume flow rate (MVR), 235°C / 2.16 kg (455°F / 4.4 lb)	36	cm³/10min	ISO 1133
Shrinkage, Parallel (t+24h)	1.5	%	ISO 294-4
Shrinkage, Normal (t+24h)	1.4	%	ISO 294-4

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	UNIT	테스트 표준
Flexural modulus, 23°C (73°F)	- / 1300	MPa	ISO 178
Tensile modulus, 23°C (73°F), 1 mm/min	- / 1600	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 3	%	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 45	MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	- / > 200	%	ISO 527-1/-2
Stress at break, 23°C (73°F), 50 mm/min	- / 33	MPa	ISO 527-1/-2
Hardness, Shore D, 15 s	- / 70		ISO 868
Charpy notched impact strength, 23°C (73°F)	- / 7	kJ/m²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 7	kJ/m²	ISO 179 1eA
Charpy unnotched impact strength, 23°C (73°F)	- / No Break	kJ/m²	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	- / No Break	kJ/m²	ISO 179 1eU

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

속성	값	UNIT	테스트 표준
Melting temperature, 10°C/min	189	°C	ISO 11357-1/-3
Heat deflection temperature, 0.45 MPa	155	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	50	°C	ISO 75-1/-2
Vicat softening temperature, 50N at 50°C/h	162	°C	ISO 306
Coefficient of linear thermal expansion	90	10E-6 / °K	ISO 11359-1/-2

THERMAL PROPERTIESELECTRICAL PROPERTIES

속성	DRY / COND VALUE*	UNIT	테스트 표준
Relative permittivity, 100Hz	4 / -		
Relative permittivity, 1Mhz	3 / -		
Dissipation factor, 100Hz	545 / -	E-4	
Dissipation factor, 1Mhz	212 / -	E-4	
Surface resistivity, 23°C (73°F)	/ 1E+14	ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73°F)	/ 1E+12	ohm/m	IEC 62631-3-1
Comparative tracking index, 23°C (73°F)	/ 600		IEC 60243-1
Dielectric Strength, 23°C (73°F)	/ 55	kV/mm	IEC 60112

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OTHER PROPERTIES

속성	값	UNIT	테스트 표준
Specific gravity, 23°C (73°F)	1.04	g/cm³	ISO 1183-1
Water absorption, 23°C (73°F), immersion, equilibrium	1.9	%	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: 210°C / 230°C / 260°C (410°F / 445°F / 500°F)
- 일반적인 금형 온도 - 사출 성형: 20-60°C (70-140°F)
- 건조 시간 및 온도: 80-90°C (175-195°F) / 4-6 시간

특징

- 생물 기반

RILSAN® BMN Y TLD

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