

RILSAN® BMN Y TLD

PA11, MHLS, 12-020, MD 02

Rilsan® BMN Y TLD resin is a polyamide 11 produced from a renewable source. This grade is "self-lubricated" and designed for injection molding.

The percentage of renewable carbon according to ASTM D 6866 (calculated) is **>98%**.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	36 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	2.16 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	- / 1600	MPa	ISO 527-1/-2
Yield stress	- / 45	MPa	ISO 527-1/-2
Yield strain	- / 3	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness, 15s	70 / *	-	ISO 7619-1
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	189 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	50 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	155 / *	°C	ISO 75-1/-2
Vicat Softening Temperature, 50°C/h 50N	162 / *	°C	ISO 306
Coeff. of Linear Thermal Expansion, parallel	90 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nominal Thickness	V-2 / *	class	IEC 60695-11-10
Thickness Tested	1.6 / *	mm	-
Yellow Card available	yes / *	-	-
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	4 / -	-	IEC 60250
Relative Permittivity, 1MHz	3 / -	-	IEC 60250
Dissipation Factor, 100Hz	545 / -	E-4	IEC 60250
Dissipation Factor, 1MHz	212 / -	E-4	IEC 60250
Volume Resistivity	- / 1E12	Ohm*m	IEC 60093
Surface Resistivity	* / 1E14	Ohm	IEC 60093
Dielectric (Electric) Strength	- / 55	kV/mm	IEC 60243-1
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	1.9 / *	%	Sim. to ISO 62
Density	1040 / 1040	kg/m ³	ISO 1183

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RILSAN®
BY ARKEMA

RILSAN® BMN Y TLD

%Bio-Based	98	-	ASTM D6866
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MAIN APPLICATIONS:

- gearings

PACKAGING:

This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

Two years from the delivery. For any use above this limit, please refer to our technical services.

Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 210°C / 230°C / 280°C.
- Mold temperature : 20 - 60°C
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80-90°C.

PROCESSING

Injection Molding

DELIVERY FORM

Pellets

ADDITIVES

Release agent

SPECIAL CHARACTERISTICS

Bio-Based, Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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rilsan.com

Arkema Inc. – Technical Polymers

900 First Avenue
King of Prussia, PA 19406
Tel.: +1 610 205 7000
Fax: +1 610 205 7497
arkema-america.com

RILSAN®
BY ARKEMA

Headquarters: Arkema France

420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
Tel.: +33 1 49 00 80 80
Fax: +33 1 49 00 83 96
arkema.com