

RILSAN®

BMNO

PA11, MHL, 12-010

Rilsan® BMNO resin is a polyamide 11 produced from a renewable source. This natural grade contains no additive and is specially designed for food contact application.

The percentage of **renewable carbon measured** according to ASTM D6866 is 98%.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	30 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	2.16 / *	kg	-
Molding Shrinkage, parallel	0.9 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.9 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	- / 1280	MPa	ISO 527-1/-2
Yield stress	- / 41	MPa	ISO 527-1/-2
Yield strain	- / 5	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness	68 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 9	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 4	kJ/m ²	ISO 179/1eA
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	145 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm Nominal Thickness	HB / *	class	IEC 60695-11-10
Yellow Card available	yes / *	-	-
OTHER PROPERTIES			
Water Absorption	1.9 / *	%	Sim. to ISO 62
Density	1030 / 1030	kg/m ³	ISO 1183
%Bio-Based	98	-	ASTM D6866

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MAIN APPLICATIONS:

- Injected parts for food application

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

SPECIAL CHARACTERISTICS

Bio-Based

REGIONAL AVAILABILITY

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

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ARKEMA

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