

RILSAN® BMNO MED

PA11, MHL, 12-010

Rilsan® BMNO MED resin is a polyamide 11 produced from a renewable source. This natural grade dedicated to injection offers the highest quality and it is specially designed to meet the stringent requirements of the medical applications such as minimally invasive devices.

Upon request letters regarding USP Class VI compliance can be provided.

The percentage of renewable carbon according to ASTM D 6866 (calculated) is **100%**.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
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
	- /	psi	
Yield stress	186000 - / 41	MPa	ISO 527-1/-2
	- / 5950	psi	
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
	- / 4.28	ftlb/in ²	
Charpy Notched Impact Strength, -30°C	- / 4	kJ/m ²	ISO 179/1eA
	- / 1.9	ftlb/in ²	
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
	122 / *	°F	
Temp. of Deflection Under Load, 0.45 MPa	145 / *	°C	ISO 75-1/-2
	293 / *	°F	
OTHER PROPERTIES			
Density	1030 / 1030	kg/m ³	ISO 1183
	1.03 / 1.03	g/cm ³	

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 Source: automatically generated TDS from Material Database on 17-11-2022

RILSAN[®] BMNO MED

%Bio-Based

100

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ASTM D6866

MAIN APPLICATIONS:

- Medical molded components such as needle fittings for syringes
- Minimally invasive devices

PACKAGING:

This grade is delivered dried in sealed packaging (44 lb 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) : 240°C / 270°C / 290°C.

- Mold temperature : 25 - 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	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 arkema.com
DELIVERY FORM Pellets	
SPECIAL CHARACTERISTICS Bio-Based	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

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