

Rilsan® BMNO MED

PA11

ARKEMA

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.

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.

流变性能	干 / 湿	单位	试验方法
ISO数据			
熔体体积流动速度, MVR	30 / *	cm³/10min	ISO 1133
温度	235 / *	°C	-
载荷	2.16 / *	kg	-
模塑收缩率, 平行	1.1 / *	%	ISO 294-4, 2577
模塑收缩率, 垂直	0.9 / *	%	ISO 294-4, 2577

机械性能	干 / 湿	单位	试验方法
ISO数据			
拉伸模量	- / 1280	MPa	ISO 527
屈服应力	- / 41	MPa	ISO 527
屈服伸长率	- / 5	%	ISO 527
名义断裂伸长率	- / >50	%	ISO 527
简支梁缺口冲击强度, +23°C	- / 8.3	kJ/m²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	- / 10.5	kJ/m²	ISO 179/1eA
肖氏硬度D, 15s	68 / -	-	ISO 868

热性能	干 / 湿	单位	试验方法
ISO数据			
熔融温度, 10°C/min	189 / *	°C	ISO 11357-1/-3
热变形温度, 1.80 MPa	50 / *	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	145 / *	°C	ISO 75-1/-2

其它性能	干 / 湿	单位	试验方法
ISO数据			
密度	1030 / 1030	kg/m³	ISO 1183
Biobased carbon content	100	%	-

加工推荐 (注塑)	数值	单位	试验方法
预干燥-温度	80 - 90	°C	-
预干燥-时间	4 - 6	h	-
注塑熔体温度	240 - 290	°C	-
模具温度	25 - 60	°C	-

特征

加工方法

注塑

生态估价

生物相容, 医用级, US药物六级认证

Rilsan® BMNO MED

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供货形式

粒料

应用

药物

注塑

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.

耐化学性

酸类

- ✓ 醋酸 (5g/100g) (23°C)
- ✓ 柠檬酸溶液 (10g/100g) (23°C)