

Rilsan® BMNO MED

Polyamide 11

Arkema

Message:

Rilsan® BMNO MED is a polyamide produced from a renewable source. This grade dedicated to injection offers the highest quality and it is specifically 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.

General Information			
Features	Renewable Resource Content		
Uses	Medical/Healthcare Applications		
Agency Ratings	USP Class VI		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 30°C, 24 hr, 2.00 mm	0.80	%	
Flow : 30°C, 24 hr, 2.00 mm	0.40	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	75		
Shore D, 15 sec	68		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1280	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	41.0	MPa	
Break	58.0	MPa	
Tensile Strain			ISO 527-2
Yield	5.0	%	
Break	> 200	%	
Flexural Modulus	1140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	10	kJ/m ²	
23°C	20	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method

Melting Temperature	189	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA11, M, 12-010		ISO 1874
Renewable Carbon Content	100	%	ASTM D6866
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	240 to 290	°C	
Mold Temperature	25.0 to 60.0	°C	

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