

Rilsan® BMNO

Polyamide 11

Arkema

Message:

Rilsan ® BMNO is a polyamide 11 produced from a renewable source. This natural grade is designed for injection molding.

MAIN APPLICATIONS

Injection molding of brackets.

Fitting and various components.

General Information			
Features	Renewable Resource Content		
Appearance	Natural Color		
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	74		
Shore D, 15 sec	70		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1090	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	40.0	MPa	
Break	51.0	MPa	
Tensile Strain			ISO 527-2
Yield	21	%	
Break	> 200	%	
Flexural Modulus	960	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	10	kJ/m ²	
23°C	8.0	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, MHLR, 12-010	ISO 1874
Renewable Carbon Content	100	% ASTM D6866
Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	4.0 to 6.0	hr
Processing (Melt) Temp	240 to 290	°C
Mold Temperature	20.0 to 60.0	°C

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