

Rilsan® BMNO TL

Polyamide 11

Arkema

Message:

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

MAIN APPLICATIONS

Injected part.

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	1280	MPa	ISO 527-2
Tensile Stress	ISO 527-2		
Yield	40.0	MPa	
Break	51.0	MPa	
Tensile Strain	ISO 527-2		
Yield	5.0	%	
Break	> 200	%	
Flexural Modulus	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	ISO 179		
-30°C	4.0	kJ/m ²	
23°C	9.0	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	> 97	%	ASTM D6866
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	210 to 280	°C	
Mold Temperature	20.0 to 60.0	°C	

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