

Rilsan® BMN G8 TLDA

Polyamide 11

Arkema

Message:

Rilsan ® BMN G8 TLDA is a polyamide 11 produced from a renewable source. This grade is designed for injection molding with improved friction properties and is approved for drinking water contact: WRAS (UK).

MAIN APPLICATIONS

Water meter parts.

General Information			
Features	Low Friction		
	Renewable Resource Content		
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	72		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	40.0	MPa	
Break	52.0	MPa	
Tensile Strain			ISO 527-2
Yield	10	%	
Break	> 200	%	
Flexural Modulus	1240	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	11	kJ/m ²	
23°C	14	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	186	°C	ISO 11357-3

Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA11, MHLRS, 12-010 CD		ISO 1874
Renewable Carbon Content	> 94	%	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	210 to 280	°C	
Mold Temperature	20.0 to 60.0	°C	

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