

Rilsan® BMN Y TLD

Polyamide 11

Arkema

Message:

Rilsan ® BMN Y TLD is a polyamide 11 produced from a renewable source. This grade is "self lubricated" and designed for injection molding.

MAIN APPLICATIONS

Gearings.

General Information			
UL YellowCard	E45228-236487		
Additive	Lubricant		
Features	Lubricated		
	Renewable Resource Content		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1600	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	45.0	MPa	
Break	33.0	MPa	
Tensile Strain			ISO 527-2
Yield	3.0	%	
Break	> 200	%	
Flexural Modulus	1300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	7.0	kJ/m ²	
23°C	7.0	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
Flammability	Nominal Value		Test Method

Flame Rating (1.50 mm)	V-2	UL 94	
Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA11, MHLS, 12-020 , MD 02		ISO 1874
Renewable Carbon Conent	> 98	%	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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