

Rilsan® BMN Noir TLD

Polyamide 11

Arkema

Message:

Rilsan ® BMN Noir TLD is a polyamide 11 produced from a renewable source. This black coloured grade is designed for injection molding.

MAIN APPLICATIONS

Injected parts.

General Information			
Features	Renewable Resource Content		
Appearance	Black		
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	77		
Shore D, 15 sec	72		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	45.0	MPa	
Break	36.0	MPa	
Tensile Strain			ISO 527-2
Yield	6.0	%	
Break	> 200	%	
Flexural Modulus	1280	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	7.0	kJ/m ²	
23°C	6.0	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	188	°C	ISO 11357-3
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94

1.00 mm	HB		
3.00 mm	V-2		
Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA11, MHLR, 12-010		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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