

Rilsan® MB 3000 NAT

Polyamide 11

Arkema

Message:

Rilsan ® MB 3000 NAT is a polyamide 11 produced from a renewable source. This natural grade is designed for injection molding and is classified as Halogen Free Flame Retardant (HFFR).

MAIN APPLICATIONS

Wire and cable sheathing.

Elevator doors rollers.

General Information			
Features	Flame Retardant		
	Halogen Free		
	Renewable Resource Content		
Uses	Wire & Cable Applications		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 30°C, 24 hr, 2.00 mm	0.90	%	
Flow : 30°C, 24 hr, 2.00 mm	0.90	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	73		
Shore D, 15 sec	69		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1830	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	45.0	MPa	
Break	42.0	MPa	
Tensile Strain			ISO 527-2
Yield	5.0	%	
Break	> 25	%	
Flexural Modulus	1140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	3.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179

-30°C	38	kJ/m ²	
23°C	83	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	189	°C	ISO 11357-3
Flammability	Nominal Value		Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA11, MHLF, 12-020 , MD		ISO 1874
Renewable Carbon Content	> 90	%	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 230	°C	
Mold Temperature	20.0 to 60.0	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

