

# Rilsan® BMN Y BZ TL

Polyamide 11

Arkema

Message:

Rilsan® BMN Y BZ TL is a Polyamide 11 (Nylon 11) product filled with filler. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Automotive.

Characteristics include:

Eco-Friendly/Green

Good UV Resistance

Heat Stabilizer

General Information	
Filler / Reinforcement	Filler
Additive	Heat Stabilizer
Features	Good UV Resistance
	Heat Stabilized
	Renewable Resource Content
Uses	Automotive Applications
Forms	Pellets
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)

Physical	Dry	Conditioned	Unit	Test Method
Density	3800	3800	kg/m <sup>3</sup>	ISO 1183 <sup>1</sup>
Melt volume-flow rate (235°C/5.0 kg)	18.0	--	cm <sup>3</sup> /10min	ISO 1133 <sup>2</sup>
Water Absorption (Saturation)	0.30	--	%	ISO 62 <sup>3</sup>
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	3600	3000	MPa	ISO 527-2 <sup>4</sup>
Tensile Stress (Break)	42.0	34.0	MPa	ISO 527-2 <sup>5</sup>
Tensile Strain (Break)	2.0	4.0	%	ISO 527-2 <sup>6</sup>
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA <sup>7</sup>
-30°C	4.00	4.00	kJ/m <sup>2</sup>	
23°C	4.00	4.00	kJ/m <sup>2</sup>	
Charpy impact strength				ISO 179/1eU <sup>8</sup>
-30°C	20.0	19.0	kJ/m <sup>2</sup>	
23°C	16.0	19.0	kJ/m <sup>2</sup>	
Thermal	Dry	Conditioned	Unit	Test Method

Deflection Temperature Under Load				ISO 75-2 <sup>9</sup>
0.45 MPa	170	--	°C	
1.8 MPa	100	--	°C	
Vicat Softening Temperature (50°C/h, B (50N))	170	--	°C	ISO 306 <sup>10</sup>
Melting Temperature <sup>11</sup>	189	--	°C	ISO 11357-3 <sup>12</sup>
CLTE - Flow	7.0E-5	--	cm/cm/°C	ISO 11359-2 <sup>13</sup>
Electrical	Dry	Conditioned	Unit	Test Method
Volume resistivity	--	1.0E+2	ohms·m	IEC 60093 <sup>14</sup>
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 <sup>15</sup>
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 <sup>16</sup>
NOTE				
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
2.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
3.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
4.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
5.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
7.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
8.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
9.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
10.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
11.	10 °C/min			
12.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			

13.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
14.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
15.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
16.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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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

