

Rilsan® BZM 30 TL

Polyamide 11

Arkema

Message:

Rilsan® BZM 30 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.

Characteristics include:

Eco-Friendly/Green

Good UV Resistance

Heat Stabilizer

Mold Release Agent

General Information				
Filler / Reinforcement	Filler			
Additive	Heat Stabilizer Mold Release			
Features	Good UV Resistance Heat Stabilized Renewable Resource Content			
Forms	Pellets			
Processing Method	Injection Molding			
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1) Isochronous Stress vs. Strain (ISO 11403-1) Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)			
Physical	Dry	Conditioned	Unit	Test Method
Density	1260	1260	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	2.00	--	cm ³ /10min	ISO 1133 ²
Water Absorption				ISO 62 ³
Saturation	1.4	--	%	
Equilibrium	0.50	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	5800	5300	MPa	ISO 527-2 ⁴
Tensile Stress (Break)	115	112	MPa	ISO 527-2 ⁵
Tensile Strain (Break)	7.0	8.0	%	ISO 527-2 ⁶
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁷

-30°C	--	12.0	kJ/m ²	
23°C	--	21.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁸
-30°C	--	84.0	kJ/m ²	
23°C	--	86.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ⁹
0.45 MPa	180	--	°C	
1.8 MPa	175	--	°C	
Vicat Softening Temperature (50°C/h, B (50N))	170	--	°C	ISO 306 ¹⁰
Melting Temperature ¹¹	189	--	°C	ISO 11357-3 ¹²
CLTE - Flow	5.0E-5	--	cm/cm/°C	ISO 11359-2 ¹³
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	1.0E+14	ohms	IEC 60093 ¹⁴
Volume resistivity	--	7.0E+11	ohms·m	IEC 60093 ¹⁵
Electric strength	--	45	kV/mm	IEC 60243-1 ¹⁶
Relative Permittivity				IEC 60250 ¹⁷
100 Hz	4.00	--		
1 MHz	4.00	--		
Dissipation Factor				IEC 60250 ¹⁸
100 Hz	0.058	--		
1 MHz	0.021	--		
Comparative tracking index	--	600		IEC 60112 ¹⁹
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 ²⁰
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 ²¹
Oxygen index	22	--	%	ISO 4589-2 ²²
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.
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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.
17.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
18.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
19.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
20.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
21.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
22.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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