Rilsan® AZM 23 G9 T6LD

Polyamide 12

Arkema

Message:

Rilsan® AZM 23 G9 T6LD is a Polyamide 12 (Nylon 12) 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:
Good UV Resistance
Heat Resistant
Mold Release Agent

General Information	
Filler / Reinforcement	Filler
Additive	Mold Release
Features	Good UV Resistance High Heat Resistance
Forms	Pellets
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1200	1200	kg/m³	ISO 1183 [1]
Melt volume-flow rate (235°C/2.16 kg)	4.00	--	cm³/10min	ISO 1133 [2]
Water Absorption (Saturation)	1.1	--	%	ISO 62 [3]
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile modulus	5000	4600	MPa	ISO 527-2 [4]
Tensile Stress (Break)	104	99.0	MPa	ISO 527-2 [5]
Tensile Strain (Break)	5.0	4.0	%	ISO 527-2 [6]
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy notched impact strength				ISO 179/1eA [7]
-30°C	10.0	10.0	kJ/m²	
23°C	13.0	12.0	kJ/m²	
Charpy impact strength				ISO 179/1eU [8]
-30°C	79.0	73.0	kJ/m²	
23°C	71.0	70.0	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**

Deflection Temperature Under Load				ISO 75-2 [9]
0.45 MPa	173	--	°C	
1.8 MPa	165	--	°C	
Vicat Softening Temperature (50°C/h, B (50N))	165	--	°C	ISO 306 [10]
Melting Temperature [11]	178	--	°C	ISO 11357-3 [12]
CLTE - Flow	6.0E-5	--	cm/cm/°C	ISO 11359-2 [13]
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	1.0E+11	ohms	IEC 60093 [14]
Volume resistivity	--	1.0E+10	ohms·m	IEC 60093 [15]
Electric strength	17	17	kV/mm	IEC 60243-1 [16]
Relative Permittivity				IEC 60250 [17]
100 Hz	4.00	--		
1 MHz	3.00	--		
Dissipation Factor				IEC 60250 [18]
100 Hz	0.10	--		
1 MHz	0.035	--		
Comparative tracking index	--	100		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]
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.
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.

Recommended distributors for this material

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