

Rilsan® AZM 23 T6LD

Polyamide 12

Arkema

Message:

Rilsan® AZM 23 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. Typical application: Automotive.

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	1170	1170	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	3.00	--	cm ³ /10min	ISO 1133 ²
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	4800	4300	MPa	ISO 527-2 ³
Tensile Stress (Break)	85.0	82.0	MPa	ISO 527-2 ⁴
Tensile Strain (Break)	6.0	6.0	%	ISO 527-2 ⁵
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁶
-30°C	--	8.00	kJ/m ²	
23°C	--	14.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁷
-30°C	--	64.0	kJ/m ²	
23°C	--	68.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ⁸

0.45 MPa	173	--	°C	
1.8 MPa	165	--	°C	
Vicat Softening Temperature (50°C/h, B (50N))	165	--	°C	ISO 306 ⁹
Melting Temperature ¹⁰	178	--	°C	ISO 11357-3 ¹¹
CLTE - Flow	6.0E-5	--	cm/cm/°C	ISO 11359-2 ¹²
Electrical	Dry	Conditioned		Test Method
Relative Permittivity				IEC 60250 ¹³
100 Hz	5.00	--		
1 MHz	5.00	--		
Dissipation Factor				IEC 60250 ¹⁴
100 Hz	0.12	--		
1 MHz	0.036	--		
NOTE				
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
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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.	10 °C/min			
11.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
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.

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