

Rilsan® AZM 15 TLD

Polyamide 12

Arkema

Message:

Rilsan® AZM 15 TLD 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 Stabilizer
- Mold Release Agent

General Information	
Filler / Reinforcement	Filler
Additive	Heat Stabilizer
	Mold Release
Features	Good UV Resistance
	Heat Stabilized
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	1120	1120	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	13.0	--	cm ³ /10min	ISO 1133 ²
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	3500	3100	MPa	ISO 527-2 ³
Tensile Stress (Break)	78.0	72.0	MPa	ISO 527-2 ⁴
Tensile Strain (Break)	7.0	8.0	%	ISO 527-2 ⁵
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁶
-30°C	7.00	7.00	kJ/m ²	
23°C	11.0	11.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁷
-30°C	71.0	65.0	kJ/m ²	
23°C	67.0	64.0	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Vicat Softening Temperature (50°C/h, B (50N))	151	--	°C	ISO 306 ⁸
Melting Temperature ⁹	178	--	°C	ISO 11357-3 ¹⁰
CLTE - Flow	4.0E-5	--	cm/cm/°C	ISO 11359-2 ¹¹
Electrical	Dry	Conditioned		Test Method
Relative Permittivity				IEC 60250 ¹²
100 Hz	4.00	--		
1 MHz	5.00	--		
Dissipation Factor				IEC 60250 ¹³
100 Hz	0.075	--		
1 MHz	0.027	--		
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. 10 °C/min

10. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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.

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