

Rilsan® AZM 50 NOIR T6LD

Polyamide 12

Arkema

Message:

Rilsan® AZM 50 NOIR 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)			
	Viscosity vs. Shear Rate (ISO 11403-2)			
Physical	Dry	Conditioned	Unit	Test Method
Density	1410	1410	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	1.00	--	cm ³ /10min	ISO 1133 ²
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	12200	11200	MPa	ISO 527-2 ³
Tensile Stress (Break)	150	145	MPa	ISO 527-2 ⁴
Tensile Strain (Break)	4.0	4.0	%	ISO 527-2 ⁵
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁶
-30°C	18.0	17.0	kJ/m ²	
23°C	23.0	23.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁷
-30°C	88.0	93.0	kJ/m ²	
23°C	90.0	56.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ⁸
0.45 MPa	175	--	°C	

1.8 MPa	170	--	°C	
Melting Temperature ⁹	178	--	°C	ISO 11357-3 ¹⁰
CLTE - Flow	3.0E-5	--	cm/cm/°C	ISO 11359-2 ¹¹
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	1.0E+11	ohms	IEC 60093 ¹²
Volume resistivity	--	1.0E+10	ohms·m	IEC 60093 ¹³

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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