

RILSAMID® AZM 30 0 TLD

ISO 16396 - PA12 , GF30, M1GHLR, C16-070

Rilsamid® AZM 30 0 TLD resin is a fiberglass reinforced polyamide. This natural grade is designed for injection moulding.

This grade is also available in green (Rilsamid® AZM 30 Green 56827 TLD resin) and grey (Rilsamid® AZM 30 Grey 632 TLD resin).

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	12 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-
Melt Flow Rate	≥ 12.8	g/10min	ASTM D1238
MECHANICAL PROPERTIES			
Tensile Modulus	6900 / 6500	MPa	ISO 527-1/-2
Yield stress	127 / 115	MPa	ISO 527-1/-2
Yield strain	4 / 4	%	ISO 527-1/-2
Stress at Break	122 / 110	MPa	ISO 527-1/-2
Strain at Break	5 / 6	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	85 / 88	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	96 / 93	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	23 / 22	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	15 / 16	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	179 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	160 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	175 / *	°C	ISO 75-1/-2
Vicat Softening Temperature, 50°C/h 50N	165 / *	°C	ISO 306
Coeff. of Linear Thermal Expansion, parallel	50 / *	E-6/K	ISO 11359-1/-2
Thermal Decomposition TGA, in air	224	°C	1% wt. loss
Thermal Decomposition TGA, in nitrogen	222	°C	1% wt. loss
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	4 / -	-	IEC 60250
Relative Permittivity, 1MHz	4 / -	-	IEC 60250
Dissipation Factor, 100Hz	752 / -	E-4	IEC 60250
Dissipation Factor, 1MHz	251 / -	E-4	IEC 60250
Volume Resistivity	- / 1E11	Ohm*m	IEC 60093
Surface Resistivity	* / 1E14	Ohm	IEC 60093

Arkema France - A French "société anonyme", registered in the Nanterre (France) Trade and Companies Register under the number 319 632 790 SJC/11-2018

Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/en/products/product-safety/disclaimer/index.html>

RILSAMID®
BY **ARKEMA**

RILSAMID® AZM 30 0 TLD

Dielectric (Electric) Strength	- / 45	kV/mm	IEC 60243-1
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	1.2 / *	%	Sim. to ISO 62
Humidity Absorption	0.6 / *	%	Sim. to ISO 62
Density	1230 / 1230	kg/m ³	ISO 1183

PACKAGING:&NBSP;

This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed

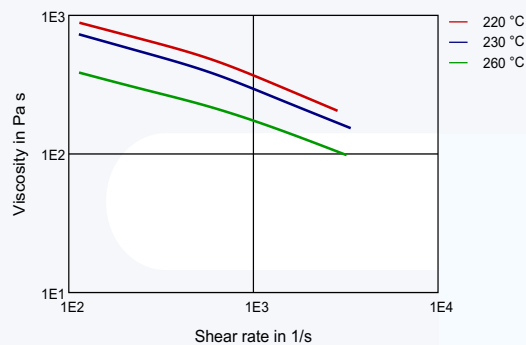
SHELF LIFE:

Two years from the delivery.

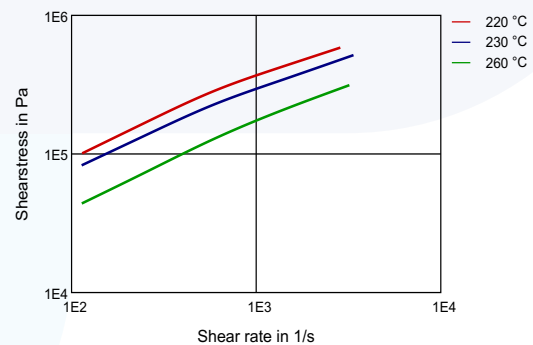
For any use above this limit please refer to our technical services.

DIAGRAMS

VISCOSITY-SHEAR RATE



SHEARSTRESS-SHEAR RATE



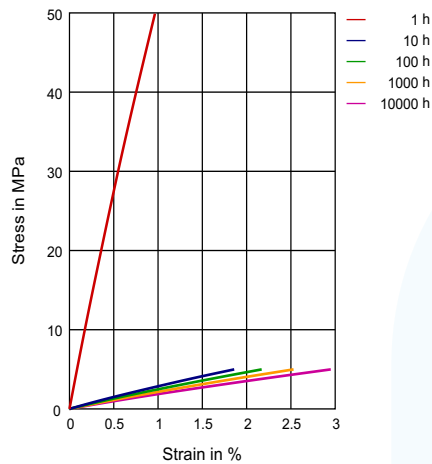
Arkema France - A French "société anonyme", registered in the Nanterre (France) Trade and Companies Register under the number 319 632 790 SBC/11-2018

Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/en/products/product-safety/disclaimer/index.html>

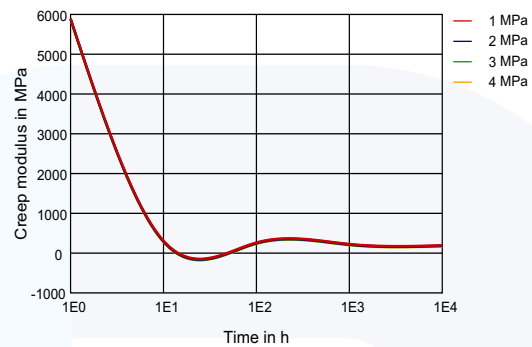
RILSAMID®
BY **ARKEMA**

RILSAMID® AZM 30 0 TLD

STRESS-STRAIN (ISOCHRONOUS) 23°C



CREEP MODULUS-TIME 23°C



Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 250°C / 265°C / 280°C.
- Typical mold temperature : 40 – 90°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-8 hours at 80-90°C.

PROCESSING

Injection Molding

DELIVERY FORM

Pellets

ADDITIVES

Release agent

SPECIAL CHARACTERISTICS

Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Arkema France - A French "société anonyme" registered in the Nanterre (France) Trade and Companies Register under the number 319 632 790 S00711-2018

Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/en/products/product-safety/disclaimer/index.html>

Rilsamid® is a registered trademark of Arkema
© 2022 Arkema Inc. All rights reserved.

rilsamid.com

RILSAMID®
BY **ARKEMA**

Arkema Inc. – Technical Polymers
900 First Avenue
King of Prussia, PA 19406
Tel.: +1 610 205 7000
Fax: +1 610 205 7497
arkema-america.com

Headquarters: Arkema France
420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
Tel.: +33 1 49 00 80 80
Fax: +33 1 49 00 83 96
arkema.com