

RILSAMID® AZM 30 BLACK T6LD

ISO 16396 - PA12, GF30, M1GHLR, 16-070

Rilsamid® AZM 30 BLACK T6LD resin is a fiberglass reinforced polyamide. This black colored grade is designed for injection molding.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	7 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-
Melt Flow Rate	≥7	g/10min	ASTM D1238
MECHANICAL PROPERTIES			
Tensile Modulus	6900 / 6400	MPa	ISO 527-1/-2
Yield stress	116 / 105	MPa	ISO 527-1/-2
Yield strain	3 / 4	%	ISO 527-1/-2
Stress at Break	112 / 100	MPa	ISO 527-1/-2
Strain at Break	5 / 4	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	79 / 77	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	83 / 83	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	19 / 19	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	12 / 12	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	183 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	163 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	176 / *	°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
Burning Behav. at Thickness h	HB / *	class	IEC 60695-11-10
Thickness Tested	3.2 / *	mm	-
Yellow Card available	yes / *	-	-
Thermal Decomposition TGA, in air	227	°C	1% wt. loss
Thermal Decomposition TGA, in nitrogen	224	°C	1% wt. loss
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	4 / -	-	IEC 60250
Relative Permittivity, 1MHz	3 / -	-	IEC 60250

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RILSAMID®
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Dissipation Factor, 100Hz	664 / -	E-4	IEC 60250
Dissipation Factor, 1MHz	274 / -	E-4	IEC 60250
Volume Resistivity	- / 1E11	Ohm*m	IEC 60093
Surface Resistivity	* / 1E14	Ohm	IEC 60093
Dielectric (Electric) Strength	35 / 35	kV/mm	IEC 60243-1
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	1.3 / *	%	Sim. to ISO 62
Humidity Absorption	0.5 / *	%	Sim. to ISO 62
Density	1240 / 1240	kg/m ³	ISO 1183

PACKAGING :&NBSP;

This grade is delivered dried in sealed packaging (25 kg bags / 450 kg rigid containers) ready to be processed

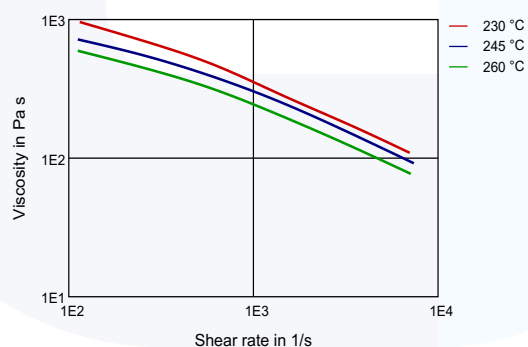
SHELF LIFE :&NBSP;

Two years from the delivery.

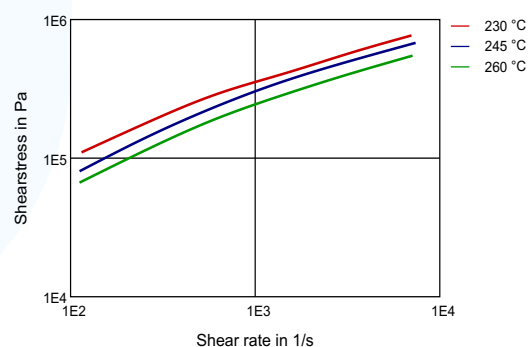
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DIAGRAMS

VISCOSITY-SHEAR RATE

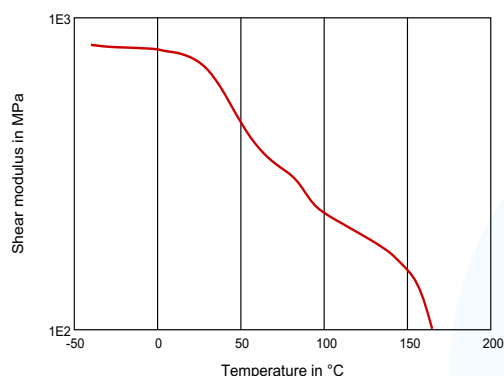


SHEARSTRESS-SHEAR RATE

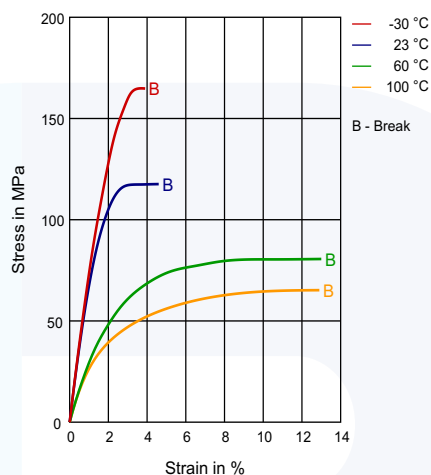


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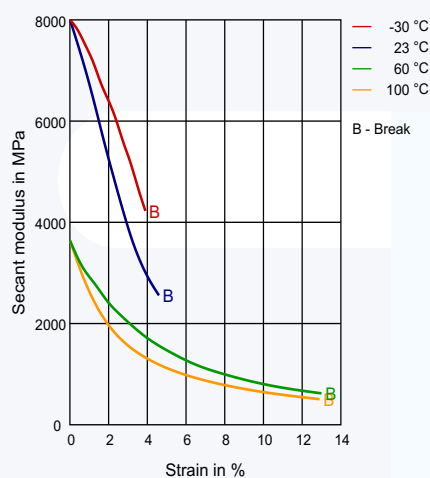
DYNAMIC SHEAR MODULUS-TEMPERATURE



STRESS-STRAIN



SECANT MODULUS-STRAIN



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.

RILSAMID® AZM 30 BLACK T6LD

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

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