

RILSAMID® AZM 23 BLACK T6LD

ISO 16396 - PA12, GF23, M1GHRLR, 16-060

Rilsamid® AZM 23 BLACK T6LD resin is a fiberglass reinforced polyamide.
This black colored grade is designed for injection moulding.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	13 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	5500 / 5070	MPa	ISO 527-1/-2
Yield stress	101 / 105	MPa	ISO 527-1/-2
Yield strain	3 / 3.5	%	ISO 527-1/-2
Nominal Strain at Break	5 / 5.2	%	ISO 527-1/-2
Stress at Break	95 / 100	MPa	ISO 527-1/-2
Charpy Impact Strength, +23°C	66 / 77	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	66 / 83	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	15 / 19	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	8 / 12	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	165 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	173 / *	°C	ISO 75-1/-2
Vicat Softening Temperature, 50°C/h 50N	165 / *	°C	ISO 306
Coeff. of Linear Thermal Expansion, parallel	60 / *	E-6/K	ISO 11359-1/-2
Thermal Decomposition TGA, in air	222	°C	1% wt. loss
Thermal Decomposition TGA, in nitrogen	223	°C	1% wt. loss
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	5 / -	-	IEC 60250
Relative Permittivity, 1MHz	5 / -	-	IEC 60250
Dissipation Factor, 100Hz	1170 / -	E-4	IEC 60250
Dissipation Factor, 1MHz	364 / -	E-4	IEC 60250
OTHER PROPERTIES			
Water Absorption	1.3 / *	%	Sim. to ISO 62
Humidity Absorption	0.5 / *	%	Sim. to ISO 62
Density	1180 / 1170	kg/m ³	ISO 1183

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PACKAGING:&NBSP;

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

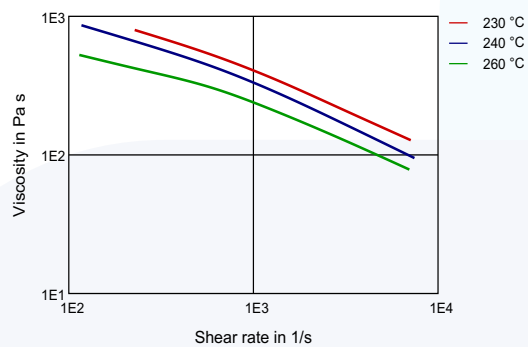
SHELF LIFE:&NBSP;

Two years from the delivery.

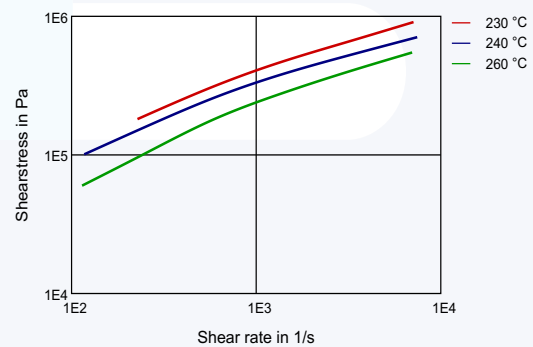
For any use above this limit please refer to our technical services.

DIAGRAMS

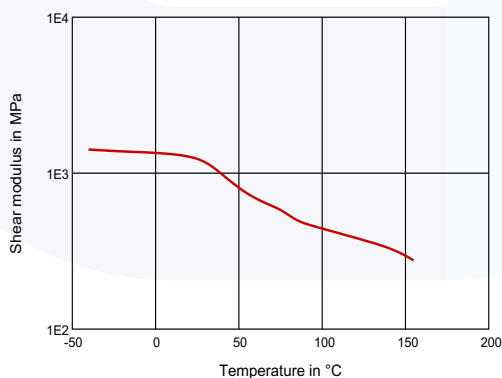
VISCOSITY-SHEAR RATE



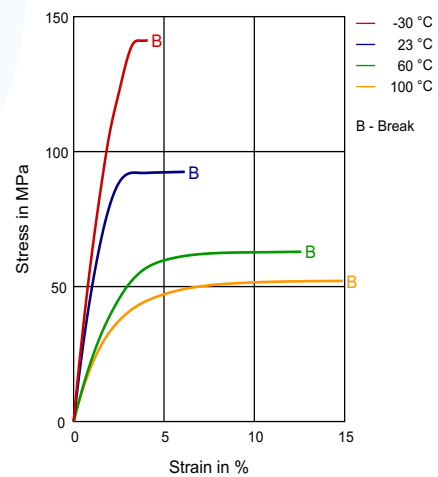
SHEARSTRESS-SHEAR RATE



DYNAMIC SHEAR MODULUS-TEMPERATURE



STRESS-STRAIN



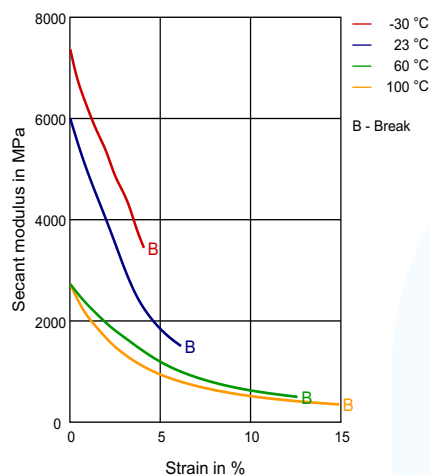
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SECANT MODULUS-STRAIN



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.

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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