

Product Texts

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

Rilsamid® AZM 30 O 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).

Packaging:

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.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	12 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	6900 / 6500	MPa	ISO 527
^[C] Stress at break	122 / 110	MPa	ISO 527
^[C] Strain at break	5 / 6	%	ISO 527
^[C] Charpy impact strength, +23°C	85 / 88	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	96 / 93	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	23 / 22	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	15 / 16	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	179 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	160 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	175 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	165 / *	°C	ISO 306

[C] Coeff. of linear therm. expansion, parallel	50 / *	E-6/K	ISO 11359-1/-2
[C]: CAMPUS			

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	4 / -	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	4 / -	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	752 / -	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	251 / -	E-4	IEC 62631-2-1
[C] Volume resistivity	- / 1E11	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	* / 1E14	Ohm	IEC 62631-3-2
[C] Electric strength	- / 45	kV/mm	IEC 60243-1
[C] Comparative tracking index	* / 600	-	IEC 60112
[C]: CAMPUS			

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	1.2 / *	%	Sim. to ISO 62
[C] Humidity absorption	0.6 / *	%	Sim. to ISO 62
[C] Density	1230 / 1230	kg/m ³	ISO 1183
[C]: CAMPUS			

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Additives

Release agent

Special Characteristics

Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability

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

Other text information

Injection molding

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.