

TECHNICAL DATA SHEET

RILSAMID® AZM 30 O TLD

POLYAMIDE 12 PELLETT

RILSAMID® AZM 30 O TLD resin is a polyamide 12 compound. This glass fiber reinforced grade is designed for injection molding and is used to produce automotive fittings & quick connectors.

Designation : ISO 16396 - PA12, GF30, M1G1HLR, C16-070

DESIGNATION

PA12-GF30

MAIN APPLICATIONS

- Auto - Fluid Connectors

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Release agent

RHEOLOGICAL PROPERTIES

プロパティ	価値	テスト基準
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	12 cm ³ /10min	ISO 1133
Shrinkage, Parallel (t+24h)	0.2 %	ISO 294-4
Shrinkage, Normal (t+24h)	0.8 %	ISO 294-4

MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Tensile modulus, 23°C (73°F), 1 mm/min	6700 / 6300 MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	127 / 115 MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	4 / 4 %	ISO 527-1/-2
Charpy unnotched impact strength, 23°C (73°F)	85 / 88 kJ/m ²	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	96 / 93 kJ/m ²	ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	- / 23 kJ/m ²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	15 / 16 kJ/m ²	ISO 179 1eA

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditionned.

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THERMAL PROPERTIES

プロパティ	価値	テスト基準
Melting temperature, 10°C/min	179 °C	ISO 11357-1/-3
Vicat softening temperature, 50N at 50°C/h	165 °C	ISO 306
Heat deflection temperature, 0.45 MPa	175 °C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	160 °C	ISO 75-1/-2
Thermal Degradation temperature, Under nitrogen at 10°C/min (1%_wt_Loss)	222 °C	ISO 11358-1
Thermal Degradation temperature, Under air at 10°C/min (1%_wt_Loss)	224 °C	ISO 11358-1

ELECTRICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Surface resistivity, 23°C (73,4°F)	- / 1.0E+14 ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73,4°F)	- / 1.0E+11 ohm/m	IEC 62631-3-1
Comparative tracking index, 23°C (73,4°F)	- / 600	IEC 60112
Dielectric stress, 23°C (73,4°F)	- / 45	IEC 60243-1
Relative permittivity, 100Hz	- / 4	IEC 60250
Relative permittivity, 1Mhz	- / 4	IEC 60250
Dissipation factor, 100Hz	- / 752	IEC 60250
Dissipation factor, 1Mhz	- / 752	IEC 60250

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OTHER PROPERTIES

プロパティ	価値	テスト基準
Specific gravity, 23°C (73°F)	1.23 g/cm ³	ISO 1183-1
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.6 %	ISO 62
Water absorption, 23°C(73°F), immersion, equilibrium	1.2 %	ISO 62

包装

This grade is delivered dried in sealed packaging ready to be processed. Available packaging:

- 25 kg / 55 lb bags

RILSAMID® AZM 30 O TLD

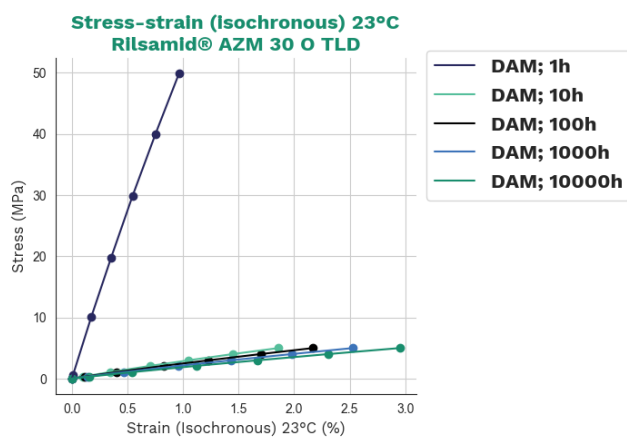
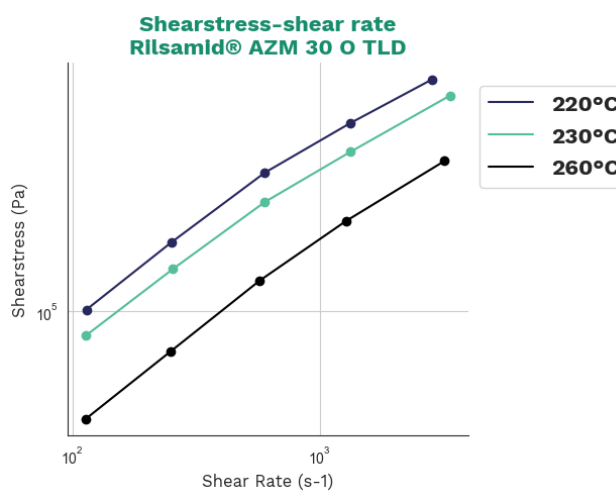
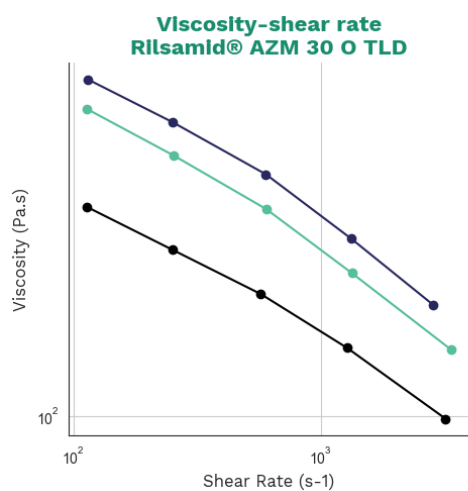
賞味期限

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

PROCESSING CONDITIONS:

- 典型的な溶融温度 (最小 / 推奨 / 最大) - 射出成形: 250°C / 270°C / 290°C (480°F / 520°F / 555°F)
- 典型的な金型温度 - 射出成形: 40-90°C (105-195°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

DIAGRAMS



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