

TECHNICAL DATA SHEET

ORGALLOY® LT 5050 T6L NAT

POLYAMIDE ALLOY PELLET

ORGALLOY® LT 5050 T6L NAT is a polyamide alloy. This natural flexible grade is designed for extrusion to produce refrigerant barrier layer in automotive & non automotive air conditioning rubber hose.

DESIGNATION

PA*

MAIN APPLICATIONS

- Outdoor - Equipment/Bicycle/Racket
- Other Sport Equipment
- Upstream - Offshore Flexible Pipes
- Hoses & Tubes
- Industry - Distribution
- Auto - Air Conditioning Circuit
- Heavy Truck H2 & Gas Lines And Tanks

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Calendering
- Extrusion - General
- Sheet Extrusion
- Thermoforming
- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

プロパティ	価値	UNIT	テスト基準
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	1.8	cm³/10min	ISO 1133

MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	UNIT	テスト基準
Hardness, Shore D, 15 s	- / 55		ISO 868
Charpy unnotched impact strength, 23°C (73°F)	No Break / No Break		ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	No Break / No Break		ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	76 / 82	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	28 / 30	kJ/m2	ISO 179 1eA
Nominal strain at break, 23°C (73°F), 50 mm/min	> 50 / > 50	%	ISO 527-1/-2
Stress at 50% strain, 23°C (73°F), 50 mm/min	26 / 21	MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	- / 470	MPa	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 330	MPa	ISO 178

*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	UNIT	テスト基準
Vicat softening temperature, 50N at 50°C/h	75	°C	ISO 306
Melting temperature, 10°C/min	220	°C	ISO 11357-1/-3

ELECTRICAL PROPERTIES

プロパティ	DRY / COND VALUE*	UNIT	テスト基準
Surface resistivity, 23°C (73°F)	- / >1E15	ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73°F)	- / 7.4E+11	ohm/m	IEC 62631-3-1
Comparative tracking index, 23°C (73°F)	- / 600		IEC 60112
Dielectric stress, 23°C (73°F)	- / 36		IEC 60243-1
Relative permittivity, 100Hz	- / 4		IEC 60250
Relative permittivity, 1Mhz	- / 4		IEC 60250
Dissipation factor, 100Hz	- / 1100		IEC 60250
Dissipation factor, 1Mhz	- / 1100		IEC 60250

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OTHER PROPERTIES

プロパティ	価値	UNIT	テスト基準
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	2	%	ISO 62
Water absorption, 23°C(73°F), immersion, equilibrium	5.6	%	ISO 62
Specific gravity, 23°C (73°F)	1.04	g/cm³	ISO 1183-1

包装

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

- 25 kg / 55 lb 袋

賞味期限

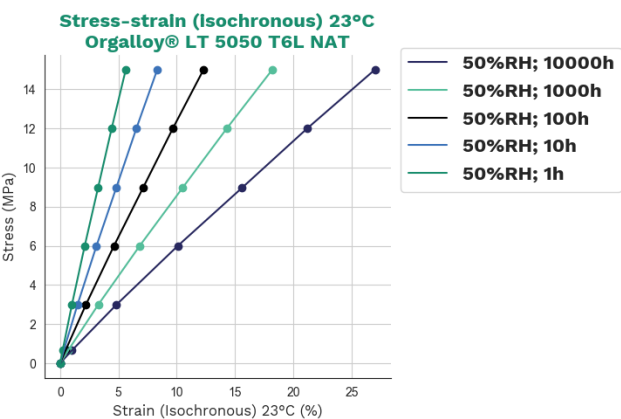
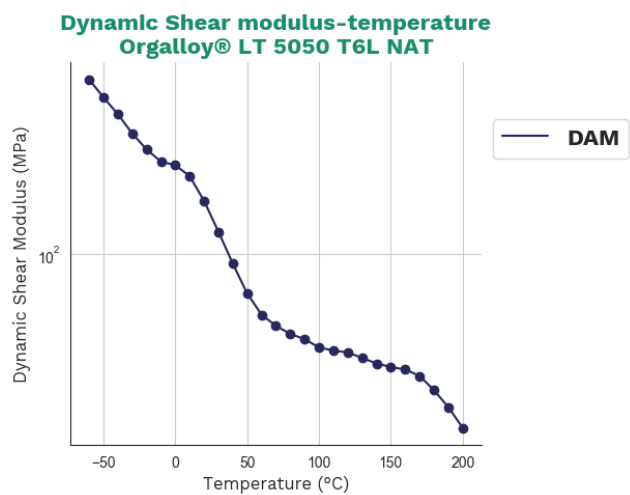
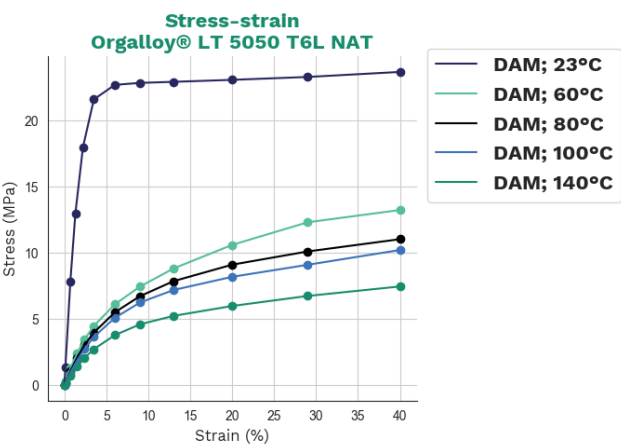
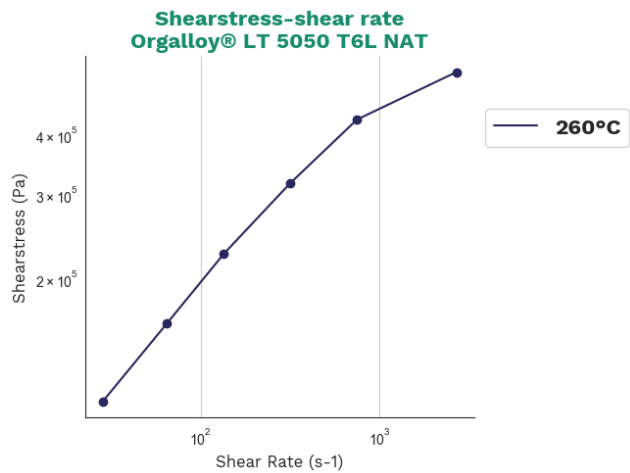
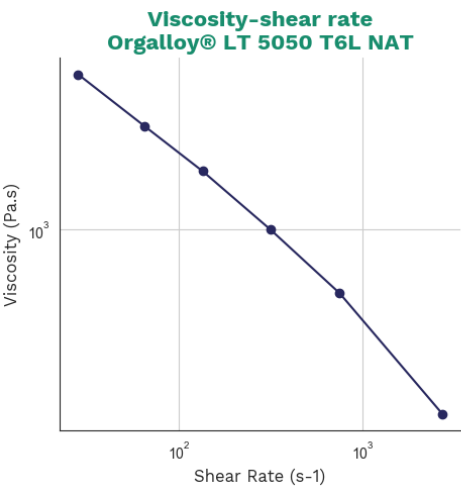
Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

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: 20-60°C (70-140°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

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DIAGRAMS



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