

TECHNICAL DATA SHEET

ORGALLOY® LE 6000 NAT

POLYAMIDE ALLOY PELLET

ORGALLOY® LE 6000 NAT is a polyamide alloy. This natural grade designed for designed for cable sheathing & blown film extrusion and offers excellent barrier properties and chemical resistance to hydrocarbons, alcohols and solvents.

DESIGNATION

PA*

MAIN APPLICATIONS

- Performance Wire
- Cable
- Molding
- Film
- Industry - Distribution
- Auto - Others Injection
- Others - Filtration

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Sheet Extrusion
- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

プロパティ	価値	テスト基準
Melt volume flow rate (MVR), 235°C / 2.16 kg (455°F / 4.4 lb)	2.5 cm ³ /10min	ISO 1133

MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Hardness, Shore D, 15 s	66 / -	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)	29 / 35 kJ/m ²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	11 / 11 kJ/m ²	ISO 179 1eA
Nominal strain at break, 23°C (73°F), 50 mm/min	> 50 / > 50 %	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	4 / 7 %	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	44 / 36 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	1815 / 1400 MPa	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 800 MPa	ISO 178

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

ORGALLOY® LE 6000 NAT

THERMAL PROPERTIES

プロパティ	価値	テスト基準
Vicat softening temperature, 50N at 50°C/h	118 °C	ISO 306
Heat deflection temperature, 0.45 MPa	84 °C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	50 °C	ISO 75-1/-2
Melting temperature, 10°C/min	220 °C	ISO 11357-1/-3

ELECTRICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Comparative tracking index, 23°C (73,4°F)	- / 600	IEC 60112

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

OTHER PROPERTIES

プロパティ	価値	テスト基準
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	2.5 %	ISO 62
Water absorption, 23°C(73°F), immersion, equilibrium	7 %	ISO 62
Specific gravity, 23°C (73°F)	1.04 g/cm ³	ISO 1183-1

包装

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

- 25 kg / 55 lb bags

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.

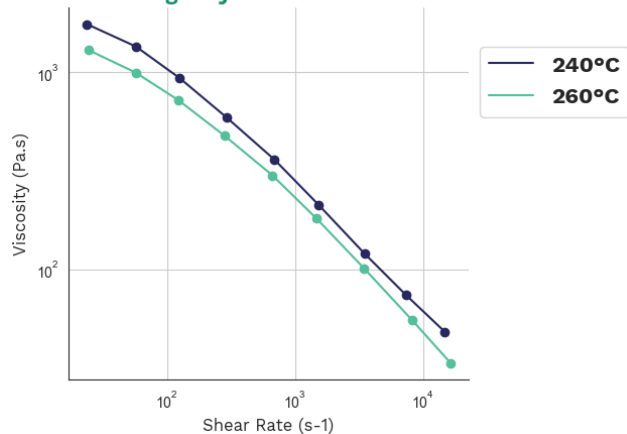
PROCESSING CONDITIONS:

- 典型的な熔融温度 (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

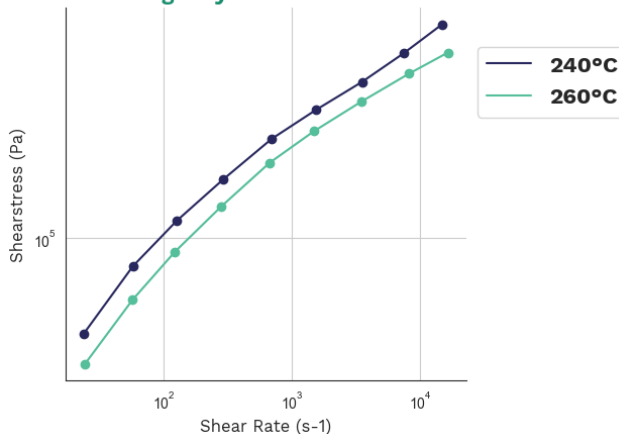
ORGALLOY® LE 6000 NAT

DIAGRAMS

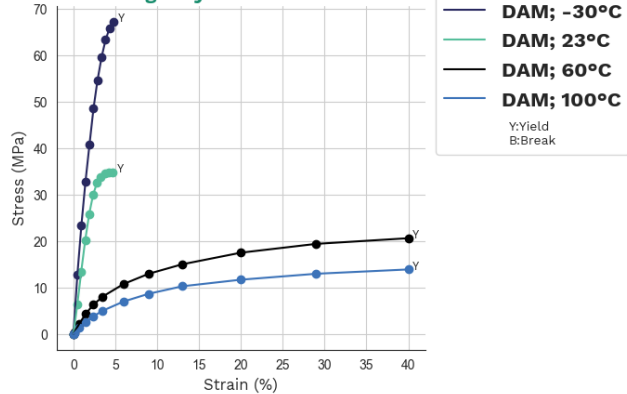
**Viscosity-shear rate
Orgalloy® LE 6000 NAT**



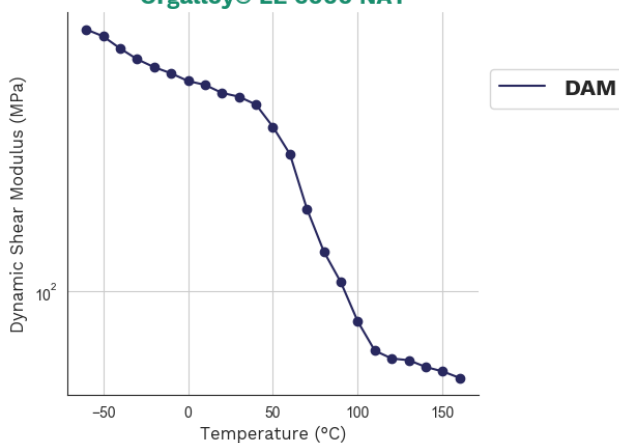
**Shearstress-shear rate
Orgalloy® LE 6000 NAT**



**Stress-strain
Orgalloy® LE 6000 NAT**



**Dynamic Shear modulus-temperature
Orgalloy® LE 6000 NAT**



Headquarter: Arkema France
420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
T +33 (0)1 49 00 80 80