

## TECHNICAL DATA SHEET

# ORGALLOY® LE 60 LM XV NAT

## POLYAMIDE ALLOY PELLET

ORGALLOY® LE 60 LM XV NAT is a polyamide alloy. This natural plasticized grade is designed for extrusion and offers excellent barrier properties and chemical resistance to hydrocarbons, alcohols and solvents while exhibiting good flexibility.

### DESIGNATION

PA\*

### 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) | 3.5 cm³/10min | ISO 1133 |

## MECHANICAL PROPERTIES

| プロパティ   | DRY / COND VALUE*   | テスト基準        |
|---|---------------------|--------------|
| Yield stress, 23°C (73°F), 50 mm/min            | 28 / 24 MPa         | ISO 527-1/-2 |
| Charpy unnotched impact strength, -30°C (-22°F) | No Break / No Break | ISO 179 1eU  |
| Charpy unnotched impact strength, 23°C (73°F)   | No Break / No Break | ISO 179 1eU  |
| Charpy notched impact strength, -30°C (-22°F)   | 12 / 12 kJ/m²       | ISO 179 1eA  |
| Charpy notched impact strength, 23°C (73°F)     | 82 / 89 kJ/m²       | 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            | 23 / 28 %           | ISO 527-1/-2 |
| Flexural modulus, 23°C (73°F)                   | - / 350 MPa         | ISO 178      |
| Tensile modulus, 23°C (73°F), 1 mm/min          | 850 / 650 MPa       | ISO 527-1/-2 |

\*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          |
|--|----------------|----------------|
| Coefficient of linear thermal expansion    | 200 10E-6 / °K | ISO 11359-1/-2 |
| Heat deflection temperature, 0.45 MPa      | 55 °C          | ISO 75-1/-2    |
| Heat deflection temperature, 1.8 MPa       | 38 °C          | ISO 75-1/-2    |
| Vicat softening temperature, 50N at 50°C/h | 86 °C          | ISO 306        |
| 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 |

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COND: Conditionned.

## OTHER PROPERTIES

| プロパティ  | 価値                     | テスト基準      |
|--|------------------------|------------|
| Water absorption, 23°C(73°F), immersion, equilibrium       | 5.8 %                  | ISO 62     |
| Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR | 2.1 %                  | ISO 62     |
| Specific gravity, 23°C (73°F)                              | 1.04 g/cm <sup>3</sup> | ISO 1183-1 |

## 包装

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

- 25 kg / 55 lb bags
- 500 kg / 1100 lb rigid containers

## 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:

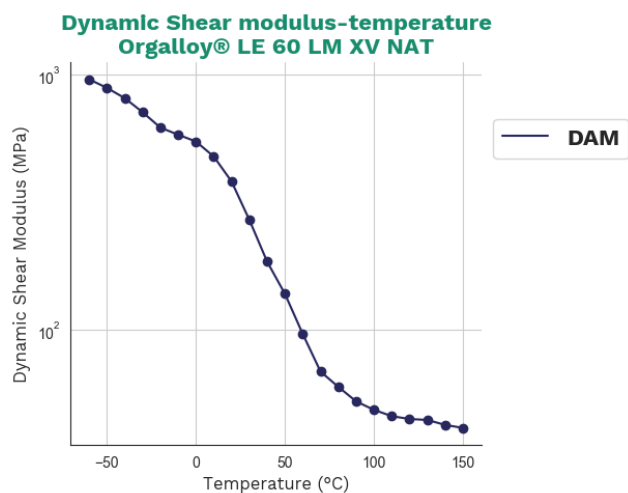
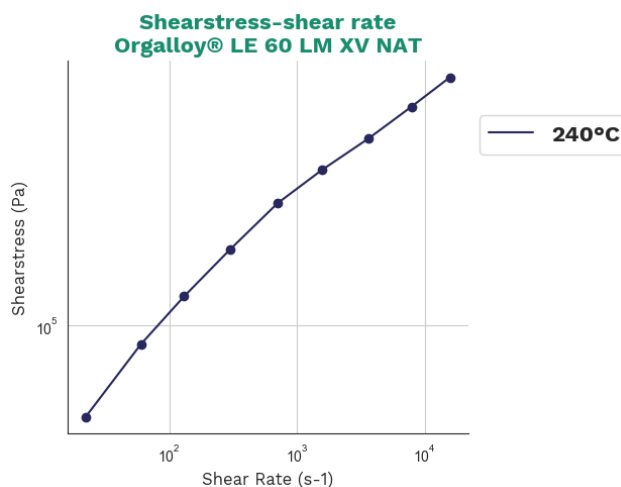
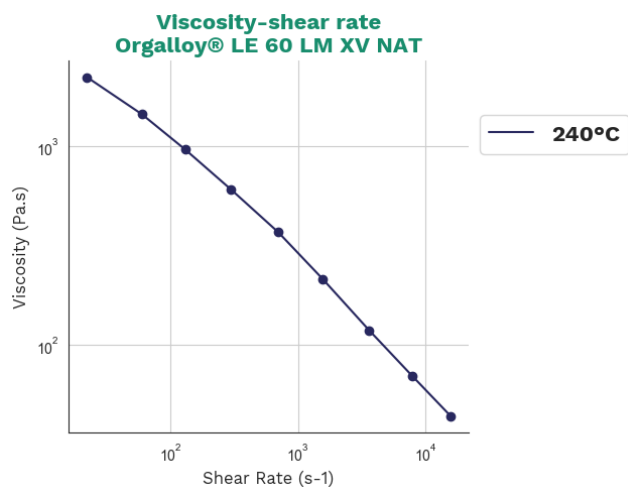
- 典型的な熔融温度 (最小 / 推奨 / 最大) - 射出成形: 250°C / 270°C / 290°C (480°F / 520°F / 555°F)
- 典型的な金型温度 - 射出成形: 20-60°C (70-140°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

## REGIONAL AVAILABILITY

Africa, Europe, Middle East, Northern America

# ORGALLOY® LE 60 LM XV NAT

## DIAGRAMS



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