

## TECHNICAL DATA SHEET

# ORGALLOY® LE 60 THM NAT

## POLYAMIDE ALLOY PELLET

ORGALLOY® LE 60 THM NAT is a polyamide alloy. This natural grade is designed for tube & profile extrusion and offers excellent barrier properties and chemical resistance to hydrocarbons, alcohols and solvents while exhibiting a good cold impact performance and abrasion resistance.

### DESIGNATION

PA\*

### MAIN APPLICATIONS

- Downstream - Gas Station Piping
- Cable
- Belting
- Industry - Distribution
- Auto - Gasoline Lines
- Auto - Air Conditioning Circuit

### 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	テスト基準
Melt volume flow rate (MVR), 235°C / 2.16 kg (455°F / 4.4 lb)	3.8 cm³/10min	ISO 1133

## MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Hardness, Shore D, 15 s	- / 68	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)	23 / 26 kJ/m²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	12 / 12 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	4 / 5 %	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	49 / 42 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	2000 / 1800 MPa	ISO 527-1/-2

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

# ORGALLOY® LE 60 THM NAT

## THERMAL PROPERTIES

プロパティ	価値	テスト基準
Vicat softening temperature, 50N at 50°C/h	131 °C	ISO 306
Heat deflection temperature, 0.45 MPa	86 °C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	48 °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
Surface resistivity, 23°C (73,4°F)	- / >1E15 ohm/sq	IEC 62631-3-2
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	2.4 %	ISO 62
Water absorption, 23°C(73°F), immersion, equilibrium	6.5 %	ISO 62
Specific gravity, 23°C (73°F)	1.05 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

## 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

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

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.  
Arkema France, a French société anonyme registered at the Trade and Companies Register of Nanterre under the number 319 632 790

arkema.com

ARKEMA