

TECHNICAL DATA SHEET

ORGALLOY® R60 ES NAT

POLYAMIDE ALLOY PELLET

ORGALLOY® R60 ES NAT is a polyamide alloy. This natural grade designed for blown film extrusion and offers good barrier properties and chemical resistance to solvents and alcohols while exhibiting a low surface tension (easy release).

DESIGNATION

PA*

MAIN APPLICATIONS

- Film

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Blow molding

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	- / 74	ISO 868
Charpy notched impact strength, 23°C (73°F)	8 / 10 kJ/m ²	ISO 179 1eA
Nominal strain at break, 23°C (73°F), 50 mm/min	- / > 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	- / 47 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	- / 1950 MPa	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 1430 MPa	ISO 178

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

THERMAL PROPERTIES

プロパティ	価値	テスト基準
Vicat softening temperature, 50N at 50°C/h	134 °C	ISO 306
Heat deflection temperature, 0.45 MPa	130 °C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	75 °C	ISO 75-1/-2
Melting temperature, 10°C/min	220 °C	ISO 11357-1/-3

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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
Volumic (transversal) resistivity, 23°C (73,4°F)	- / >1E13 ohm/m	IEC 62631-3-1
Comparative tracking index, 23°C (73,4°F)	- / 600	IEC 60112
Dielectric stress, 23°C (73,4°F)	- / 38	IEC 60243-1
Relative permittivity, 100Hz	- / 3	IEC 60250
Relative permittivity, 1Mhz	- / 3	IEC 60250
Dissipation factor, 100Hz	- / 620	IEC 60250
Dissipation factor, 1Mhz	- / 620	IEC 60250

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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 %	ISO 62
Water absorption, 23°C(73°F), immersion, equilibrium	6.1 %	ISO 62
Specific gravity, 23°C (73°F)	1.03 g/cm ³	ISO 1183-1

包装

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

- 800 kg / 1760 lb rigid containers

賞味期限

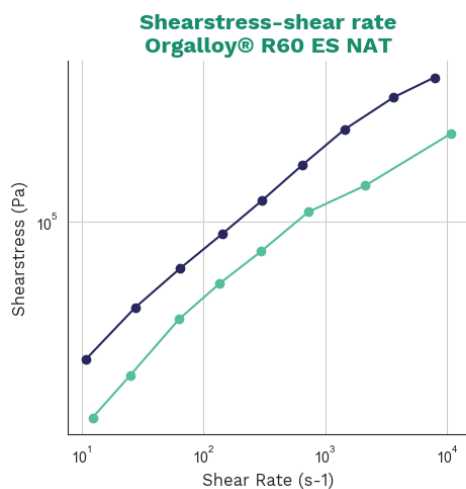
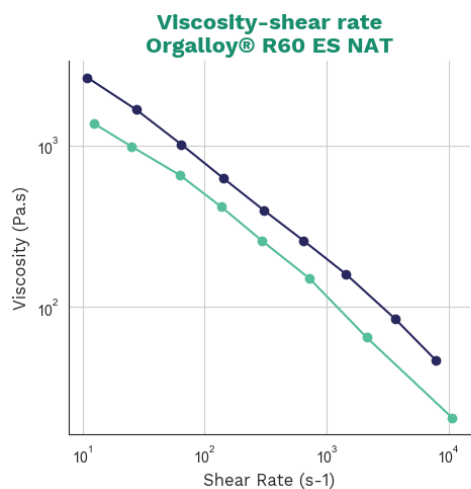
Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

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

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DIAGRAMS



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