

Orgalloy® LE 60 LM XV NAT

PA6...

Orgalloy® LE 60 LMXV resin

The **Orgalloy® LE series** is a flexible polyamide alloy.

Outstanding properties: processability on PE screw, low moisture absorption, chemical resistance (no known solvents).

The grades referenced: lower in rigidity than LE 6000 (900 MPa).

Suited to the extrusion of tubes (hydraulic, pneumatic, painting, etc.)

Rheological properties

	dry / cond	Unit	Test Standard
Melt volume-flow rate, MVR	4 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	2.16 / *	kg	-

Mechanical properties

	dry / cond	Unit	Test Standard
Tensile Modulus	850 / 650	MPa	ISO 527-1/-2
Yield stress	28 / 24	MPa	ISO 527-1/-2
Yield strain	22 / 28	%	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Charpy impact strength, +23°C	- / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	82 / 89	kJ/m ²	ISO 179/1eA

Thermal properties

	dry / cond	Unit	Test Standard
Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Vicat softening temperature, 50°C/h 50N	86 / *	°C	ISO 306
Coeff. of linear therm. expansion, parallel	200 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.2 / *	mm	-

Electrical properties

	dry / cond	Unit	Test Standard
Comparative tracking index	* / 600	-	IEC 60112

Other properties

	dry / cond	Unit	Test Standard
Water absorption	5.5 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1030 / 1030	kg/m ³	ISO 1183

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Test specimen production

Injection Molding, melt temperature

Injection Molding, mold temperature

Value

260

60

Unit

°C

°C

Test Standard

ISO 294

ISO 10724

Mechanical properties (TPE)

Shore D hardness, 15s

dry / cond

57 / *

Unit

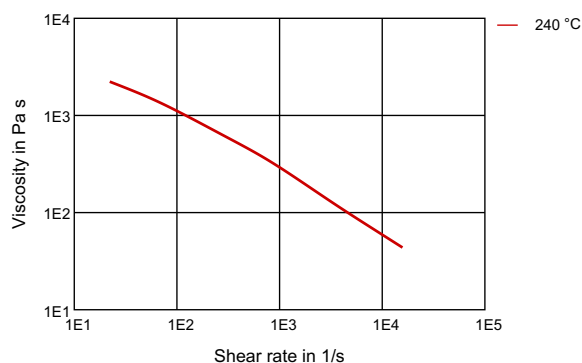
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Test Standard

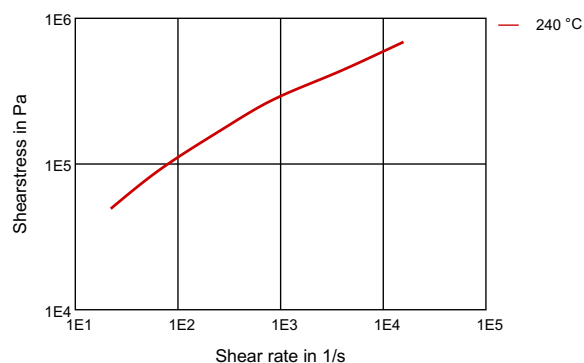
ISO 868

Diagrams

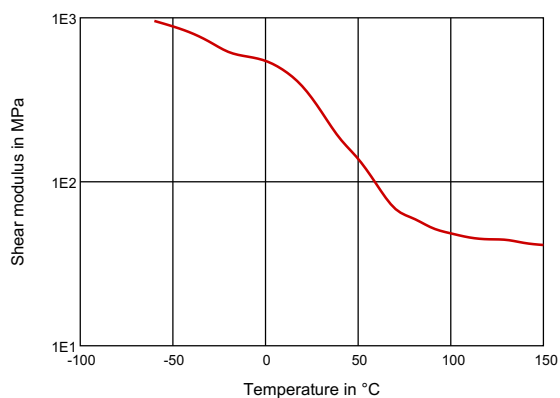
Viscosity-shear rate



Shearstress-shear rate



Dynamic Shear modulus-temperature



Characteristics

Processing

Profile Extrusion, Sheet Extrusion, Other Extrusion, Transfer Molding

Special Characteristics

Light stabilized or stable to light, Heat stabilized or stable to heat

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Delivery form

Pellets

Additives

Plasticizer

Chemical Media Resistance

Acids

- ✓ Sulfuric Acid (5% by mass) (23°C)

Bases

- ✓ Sodium Hydroxide solution (1% by mass) (23°C)

Alcohols

- ✓ Methanol (23°C)
- ✓ Ethanol (23°C)

Hydrocarbons

- ✓ Toluene (23°C)

Ketones

- ✓ Acetone (23°C)

Standard Fuels

- ✓ Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)

Salt solutions

- ✓ Zinc Chloride solution (50% by mass) (23°C)

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa