

**Product Texts**

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

**Main applications:**

- Hydraulic tubing
- Tapes for cable protection
- resistant to hydrocarbons

**Packaging:**

This grade is delivered dried in sealed packaging (25kg bags and 500kg octabin) ready to be processed.

**Shelf life:**

Two years from the date of delivery. For any use above this limit, please refer to our technical services.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	3.5 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	235 / *	°C	-
Load	2.16 / *	kg	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	850 / 650	MPa	ISO 527
<sup>[C]</sup> Yield stress	28 / 24	MPa	ISO 527
<sup>[C]</sup> Yield strain	23 / 28	%	ISO 527
<sup>[C]</sup> Nominal strain at break	>50 / >50	%	ISO 527
<sup>[C]</sup> Charpy notched impact strength, +23°C	82 / 89	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	12 / 12	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	38 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	55 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	86 / *	°C	ISO 306
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	200 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
<sup>[C]</sup> Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.2 / *	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Comparative tracking index	* / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	5.8 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	2.1 / *	%	Sim. to ISO 62
<sup>[C]</sup> Density	1040 / 1040	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics****Processing**

Profile Extrusion, Sheet Extrusion, Other Extrusion, Transfer Molding

**Delivery form**

Pellets, Natural Color

**Additives**

Plasticizer

**Special Characteristics**

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

**Regional Availability**

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

**Other text information****Other extrusion****Processing conditions:**

- Drying time (only necessary for bags opened for more than two hours): 4-8 hours at 80°C
- Extrusion melt temperature (min-recommended-max): 250-260-270°C