

ORGALLOY® LE 60 LM XV NAT

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.

Exhibiting flexibility:

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	3.5 / *	cm³/10min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	
Load	2.16 / *	kg	-
	4.76 / *	lb	
MECHANICAL PROPERTIES			
Tensile Modulus	850 / 650	MPa	ISO 527-1/-2
	123000 / 94300	psi	
Yield stress	28 / 24	MPa	ISO 527-1/-2
	4060 / 3480	psi	
Yield strain	22 / 28	%	ISO 527-1/-2
Nominal Strain at Break	>50 / >50	%	ISO 527-1/-2
Shore D Hardness	57 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	82 / 89	kJ/m²	ISO 179/1eA
	39 / 42.3	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Vicat Softening Temperature, 50°C/h 50N	86 / *	°C	ISO 306
	187 / *	°F	
Coeff. of Linear Thermal Expansion, parallel	200 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nominal Thickness	HB / *	class	IEC 60695-11-10
Thickness Tested	1.6 / *	mm	-
	0.0630 / *	in	
Burning Behav. at Thickness h	HB / *	class	IEC 60695-11-10
Thickness Tested	3.2 / *	mm	-
	0.1260 / *	in	
ELECTRICAL PROPERTIES			

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Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	5.5 / *	%	Sim. to ISO 62
Humidity Absorption	1.5 / *	%	Sim. to ISO 62
Density	1030 / 1030	kg/m ³	ISO 1183
	1.03 / 1.03	g/cm ³	

MAIN APPLICATIONS:

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

PACKAGING:

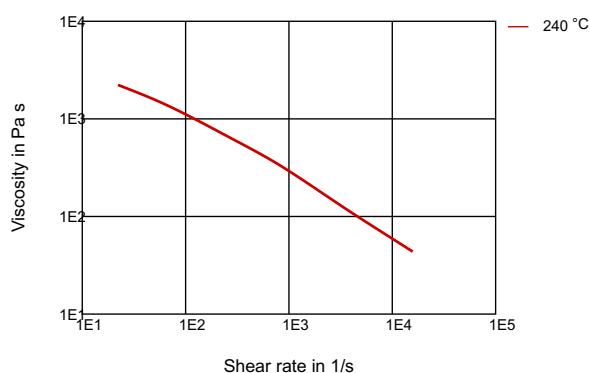
This grade is delivered dried in sealed packaging (25kg bags and 500kg octabin) ready to be processed.

SHELF LIFE:

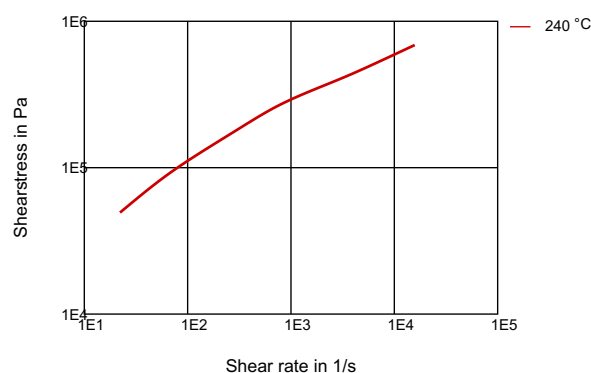
Two years from the date of delivery. For any use above this limit, please refer to our technical services.

DIAGRAMS

VISCOSITY-SHEAR RATE

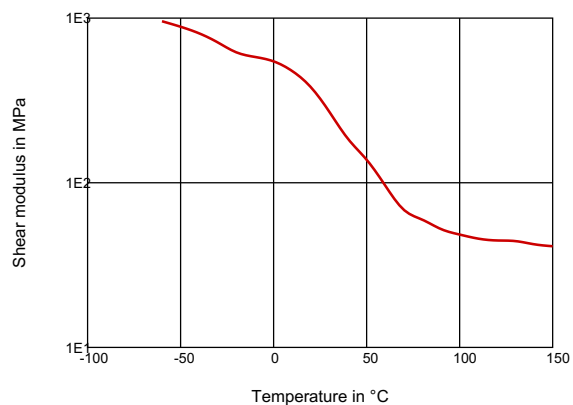


SHEARSTRESS-SHEAR RATE



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DYNAMIC SHEAR MODULUS-TEMPERATURE



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

PROCESSING Profile Extrusion, Sheet Extrusion, Other Extrusion, Transfer Molding	
DELIVERY FORM Pellets	
ADDITIVES Plasticizer	
SPECIAL CHARACTERISTICS Heat Stabilized, Light Stabilized	
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa	