

ORGALLOY® LT 4060 NAT

Orgalloy® LT 4060 NAT resin is a polyamide alloy especially designed for mandrel extrusion. This natural grade dedicated to extrusion offers good thermal resistance, cold performance and is very flexible.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	2.5 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-
Molding Shrinkage, parallel	0.7 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.9 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	600 / 300	MPa	ISO 527-1/-2
Stress at 50% Strain	20 / 16	MPa	ISO 527-1/-2
Strain at Break	> 50 / > 50	%	ISO 527-1/-2
Shore D Hardness, 15s	50 / *	-	ISO 7619-1
Charpy Impact Strength, +23°C	No Break / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	80 / 84	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 0.45 MPa	60 / *	°C	ISO 75-1/-2
Vicat Softening Temperature, 50°C/h 50N	62 / *	°C	ISO 306
Burning Behav. at 1.5 mm Nominal Thickness	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			
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	5 / *	%	Sim. to ISO 62
Humidity Absorption	1.1 / *	%	Sim. to ISO 62
Density	1040 / 1040	kg/m ³	ISO 1183

MAIN APPLICATIONS:

- Mandrel for rubber industry

PACKAGING:

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

SHELF LIFE:

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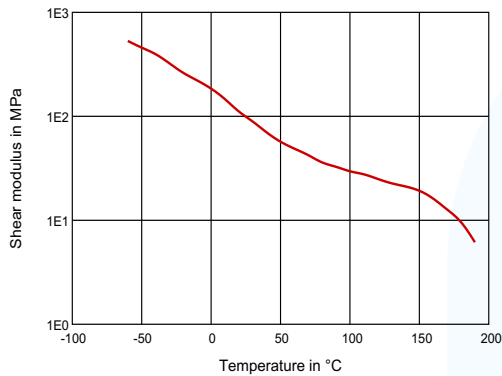
ORGALLOY®
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ORGALLOY® LT 4060 NAT

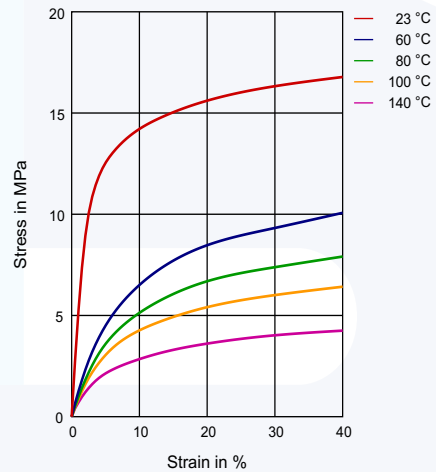
Two years from the date of delivery. For any use above this limit, please refer to our technical services.

DIAGRAMS

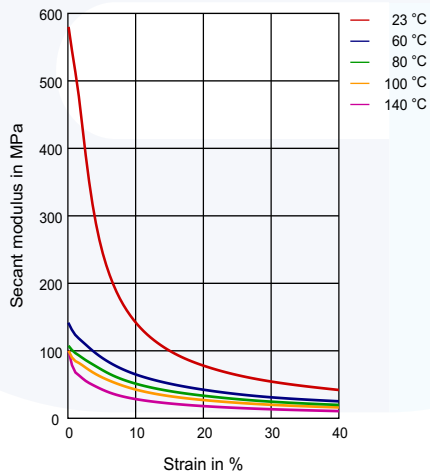
DYNAMIC SHEAR MODULUS-TEMPERATURE



STRESS-STRAIN



SECANT MODULUS-STRAIN



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

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ORGALLOY® LT 4060 NAT

PROCESSING

Profile Extrusion, Sheet Extrusion, Other Extrusion, Transfer Molding

DELIVERY FORM

Pellets

SPECIAL CHARACTERISTICS

Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

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

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