

ORGALLOY® GT 01 NAT

Orgalloy® GT 01 NAT resin is a polyamide alloy especially designed for extrusion blow molding. This natural grade offers an excellent thermal resistance, cold impact performance and barrier properties to gas.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	1.1 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	- / 500	MPa	ISO 527-1/-2
Stress at 50% Strain	26 / 20	MPa	ISO 527-1/-2
Strain at Break	> 50 / > 50	%	ISO 527-1/-2
Shore D Hardness, 15s	55 / *	-	ISO 7619-1
Charpy Impact Strength, +23°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 83	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 21.6	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Vicat Softening Temperature, 50°C/h 50N	75 / *	°C	ISO 306
OTHER PROPERTIES			
Density	1040 / 1040	kg/m ³	ISO 1183

MAIN APPLICATIONS:

- Liner for Compressed Natural Gas (CNG) tank

PACKAGING:

This grade is delivered dried in sealed packaging (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.

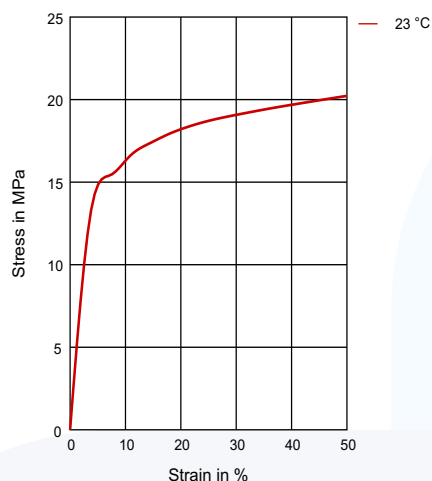
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ORGALLOY®
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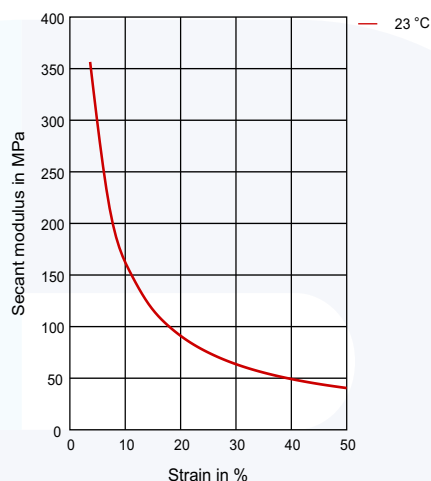
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DIAGRAMS

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

PROCESSING

Blow Molding

DELIVERY FORM

Pellets

SPECIAL CHARACTERISTICS

Heat Stabilized

REGIONAL AVAILABILITY

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

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