Orgalloy® LT 5050

Polyamide 6 Alloy

Arkema

Message:

Orgalloy® LT 5050 is a Polyamide 6 Alloy (Nylon 6 Alloy) product. It can be processed by calendering, extrusion, film extrusion, injection molding, profile extrusion, resin transfer molding, sheet extrusion, or thermoforming and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.
Characteristics include:
Heat Resistant
Impact Resistant

General Information	
Features	Good Impact Resistance
	High Heat Resistance
	Platable
Forms	Pellets
Processing Method	Calendering
	Extrusion
	Film Extrusion
	Injection Molding
	Profile Extrusion
	Resin Transfer Molding
	Sheet Extrusion
	Thermoforming
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)
	Shear Modulus vs. Temperature (ISO 11403-1)
	Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1040	1040	kg/m³	ISO 1183 [1]
Melt volume-flow rate (235°C/5.0 kg)	2.00	--	cm³/10min	ISO 1133 [2]
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile modulus	--	460	MPa	ISO 527-2 [3]
Tensile Stress (50% Strain)	--	23.0	MPa	ISO 527-2 [4]
Tensile Strain (Break)	--	> 50	%	ISO 527-2 [5]
Tensile Creep Modulus				ISO 899-1 [6]
1 hr	--	420	MPa	
1000 hr	--	270	MPa	

Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature [7]	220	--	°C	ISO 11357-3 [8]
CLTE				ISO 11359-2 [9]
Flow	1.7E-4	--	cm/cm/°C	
Transverse	1.8E-4	--	cm/cm/°C	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface resistivity	--	> 1.0E+15	ohms	IEC 60093 [10]
Volume resistivity	--	7.5E+11	ohms·m	IEC 60093 [11]
Electric strength	36	36	kV/mm	IEC 60243-1 [12]
Relative Permittivity				IEC 60250 [13]
100 Hz	--	4.00		
1 MHz	--	4.00		
Dissipation Factor				IEC 60250 [14]
100 Hz	--	0.11		
1 MHz	--	0.050		
Comparative tracking index	--	600		IEC 60112 [15]
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 [16]
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 [17]
NOTE				
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
2.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
3.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
4.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
5.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
7.	10 °C/min			
8.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
9.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			

10.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
11.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
12.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
13.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
14.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
15.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
16.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
17.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Recommended distributors for this material

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