Orgalloy® LT 5050ES

Polyamide 6 Alloy

Arkema

Message:

Orgalloy® LT 5050ES is a Polyamide 6 Alloy (Nylon 6 Alloy) product. It can be processed by blow molding, calendering, extrusion, film extrusion, profile extrusion, or sheet extrusion 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	Blow Molding Calendering Extrusion Film Extrusion Profile Extrusion Sheet Extrusion
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1)

Physical	Dry	Conditioned	Unit	Test Method
Density	1040	1040	kg/m³	ISO 1183 [1]
Melt volume-flow rate (235°C/5.0 kg)	0.500	--	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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