

Orgalloy® LE 6000

Polyamide 6 Alloy

Arkema

Message:

Orgalloy® LE 6000 is a Polyamide 6 Alloy (Nylon 6 Alloy) product. It can be processed by blow molding, 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	Blow Molding			
	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/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	2.00	--	cm ³ /10min	ISO 1133 ²
Water Absorption				ISO 62 ³
Saturation	6.4	--	%	
Equilibrium	1.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	--	1300	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	--	35.0	MPa	ISO 527-2 ⁵

Tensile Strain (Yield)	--	4.0	%	ISO 527-2 ⁶
Nominal strain at break	--	> 50	%	ISO 527-2 ⁷
Tensile Creep Modulus				ISO 899-1 ⁸
1 hr	--	1130	MPa	
1000 hr	--	520	MPa	
Thermal	Dry	Conditioned	Unit	Test Method
Vicat Softening Temperature (50°C/h, B (50N))	97.0	--	°C	ISO 306 ⁹
Melting Temperature ¹⁰	220	--	°C	ISO 11357-3 ¹¹
Electrical	Dry	Conditioned		Test Method
Comparative tracking index	--	600		IEC 60112 ¹²
Flammability	Dry	Conditioned		Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm, UL)	HB	--		ISO 1210 ¹³
Burning Behav. at thickness h (3.20 mm, UL)	HB	--		ISO 1210 ¹⁴
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.			
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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.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
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.	10 °C/min			
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.

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