

Orgalloy® LE 60SF

Polyamide 6 Alloy

Arkema

Message:

Orgalloy® LE 60SF is a Polyamide 6 Alloy (Nylon 6 Alloy) product. It can be processed by calendering, casting, coating, extrusion, film extrusion, injection molding, resin transfer molding, 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	Calendering
	Casting
	Coating
	Extrusion
	Film Extrusion
	Injection Molding
	Resin Transfer Molding
	Sheet Extrusion

Physical	Dry	Conditioned	Unit	Test Method
Density	1040	1040	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	6.00	--	cm ³ /10min	ISO 1133 ²
Water Absorption				ISO 62 ³
Saturation	5.5	--	%	
Equilibrium	1.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	--	1350	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	--	36.0	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	--	1150	MPa	
1000 hr	--	550	MPa	
Thermal	Dry	Conditioned	Unit	Test Method

Vicat Softening Temperature (50°C/h, B (50N))	99.0	--	°C	ISO 306 ⁹
Melting Temperature ¹⁰	220	--	°C	ISO 11357-3 ¹¹
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	> 1.0E+15	ohms	IEC 60093 ¹²
Comparative tracking index	--	600		IEC 60112 ¹³
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 ¹⁴
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 ¹⁵
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.	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.
15.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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