

Orgalloy® LE 60LM

Polyamide 6 Alloy

Arkema

Message:

Orgalloy® LE 60LM 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	Shear Modulus vs. Temperature (ISO 11403-1)			
	Viscosity vs. Shear Rate (ISO 11403-2)			
Physical	Dry	Conditioned	Unit	Test Method
Density	1020	1020	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	1.50	--	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	--	700	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	--	32.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	--	6.0	%	ISO 527-2 ⁶
Nominal strain at break	--	> 50	%	ISO 527-2 ⁷

Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ⁸	220	--	°C	ISO 11357-3 ⁹
Electrical	Dry	Conditioned		Test Method
Comparative tracking index	--	600		IEC 60112 ¹⁰
Flammability	Dry	Conditioned		Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 ¹¹
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 ¹²
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.	10 °C/min			
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.			

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