

Orgalloy® LT 4060

Polyamide 6 Alloy

Arkema

Message:

Orgalloy® LT 4060 is a Polyamide 6 Alloy (Nylon 6 Alloy) product. It can be processed by extrusion, injection molding, profile extrusion, or resin transfer molding 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	Extrusion			
	Injection Molding			
	Profile Extrusion			
	Resin Transfer Molding			
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/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/5.0 kg)	1.70	--	cm ³ /10min	ISO 1133 ²
Water Absorption				ISO 62 ³
Saturation	5.0	--	%	
Equilibrium	1.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	--	300	MPa	ISO 527-2 ⁴
Tensile Stress (50% Strain)	--	22.0	MPa	ISO 527-2 ⁵
Tensile Strain (Break)	--	> 50	%	ISO 527-2 ⁶
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁷
-30°C	--	22.0	kJ/m ²	
23°C	--	No Break		
Thermal	Dry	Conditioned	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa)	60.0	--	°C	ISO 75-2 ⁸
Melting Temperature ⁹	217	--	°C	ISO 11357-3 ¹⁰
Electrical	Dry	Conditioned		Test Method
Comparative tracking index	--	600		IEC 60112 ¹¹
Flammability	Dry	Conditioned		Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 ¹²
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 ¹³
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.	10 °C/min			
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.			

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