

Orgalloy® LE 60THM

Polyamide 6 Alloy

Arkema

Message:

Orgalloy® LE 60THM 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	
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Features	Good Impact Resistance
	High Heat Resistance
	Platable

Forms	Pellets
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Processing Method	Blow Molding
	Calendering
	Extrusion
	Film Extrusion
	Injection Molding
	Profile Extrusion
	Resin Transfer Molding
	Sheet Extrusion
	Thermoforming

Physical	Dry	Conditioned	Unit	Test Method
Density	1050	1050	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	3.00	--	cm ³ /10min	ISO 1133 ²
Water Absorption				ISO 62 ³
Saturation	6.0	--	%	
Equilibrium	1.8	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	--	1750	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	--	40.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	--	5.0	%	ISO 527-2 ⁶
Nominal strain at break	--	> 50	%	ISO 527-2 ⁷
Tensile Creep Modulus				ISO 899-1 ⁸
1 hr	--	1520	MPa	
1000 hr	--	690	MPa	

Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁹
-30°C	--	10.0	kJ/m ²	
23°C	--	13.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ¹⁰
0.45 MPa	80.0	--	°C	
1.8 MPa	50.0	--	°C	
Melting Temperature ¹¹	220	--	°C	ISO 11357-3 ¹²
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	> 1.0E+15	ohms	IEC 60093 ¹³
Comparative tracking index	--	600		IEC 60112 ¹⁴
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 ¹⁵
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 ¹⁶
NOTE				

1.

Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

2.

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3.

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4.

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5.

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6.

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7.

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8.

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9.

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10.

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11.	10 °C/min
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.

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

