

Orgalloy® LE 60HM

Polyamide 6 Alloy

Arkema

Message:

Orgalloy® LE 60HM 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		Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1050	1050	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	1.00	--	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	--	1550	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	--	39.0	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	--	1350	MPa	

1000 hr	--	620	MPa	
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ⁹	220	--	°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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