



Orgalloy® LE 6000 (Dry)

Arkema - Polyamide 6 Alloy

Tuesday, December 02, 2008

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America • South America
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	• Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1)	• Shear Modulus vs. Temperature (ISO 11403-2) • Viscosity vs. Shear Rate (ISO 11403-2)	

ASTM and ISO Properties ¹

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.0376 lb/in ³	1040 kg/m ³	ISO 1183 ²
Melt volume-flow rate (235°C/2.16 kg)	0.122 in ³ /10min	2.00 cm ³ /10min	ISO 1133 ²
Water Absorption			ISO 62 ²
Saturation	6.4 %	6.4 %	
Equilibrium	1.8 %	1.8 %	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature			ISO 306 ²
50°C/h, B (50N)	207 °F	97.0 °C	
Melting Temperature ³	428 °F	220 °C	ISO 11357-3 ²
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Behav. at 1.6mm nom. thickn.			ISO 1210 ²
0.06 in (1.60 mm), UL	HB	HB	
Burning Behav. at thickness h			ISO 1210 ²
0.126 in (3.20 mm), UL	HB	HB	

Notes

¹ Typical properties: these are not to be construed as specifications.

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

³ 10 °C/min