

Arkema Group Orgalloy® LE 6006 Nylon Alloy, 6% Glass Fiber Reinforced (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon, Flexible Alloy

Material Notes:

LE series, flexible polyamide alloys: processability on PE screw, low moisture absorption, chemical resistance (no known solvents).6% glass fiber reinforced. Medium stiffness, good thermomechanical resistance. Suited to injection molding.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-LE-6006-Nylon-Alloy-6-Glass-Fiber-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	
Water Absorption	6.0 %	6.0 %	
Moisture Absorption at Equilibrium	1.6 %	1.6 %	Humidity Absorption
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 235 °C	2.0 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	46.0 MPa	6670 psi	50 mm/min
Elongation at Break	27 %	27 %	Nominal Strain; 50 mm/min
Tensile Modulus	1.90 GPa	276 ksi	1 mm/min

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	195 °C	383 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	

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