

Arkema Group Orgalloy® LE 6010 HV Nylon Alloy, 10% 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). 10% glass fiber reinforced. Suited to blow molding of technical parts under the hood (air intake) and 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-6010-HV-Nylon-Alloy-10-Glass-Fiber-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	
Water Absorption	5.7 %	5.7 %	
Moisture Absorption at Equilibrium	1.6 %	1.6 %	Humidity Absorption
Melt Flow	1.2 g/10 min @Load 2.16 kg, Temperature 235 °C	1.2 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min
Elongation at Break	15 %	15 %	Nominal Strain; 50 mm/min
Tensile Modulus	2.20 GPa	319 ksi	1 mm/min

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 µm/m-°C	33.3 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	15.0 µm/m-°C	8.33 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	220 °C	428 °F	10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	204 °C	399 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	

Thermal Properties	Metric	English	Comments
	@ Thickness 3.20 mm	@ Thickness 0.126 in	

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

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