

Arkema Group Orgalloy® LT 4060IH Flexible Nylon Alloy (Conditioned)

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

Material Notes:

Very flexible polyamide alloy: easy to process, low moisture absorption, good mechanical properties at low temperature. Demonstrate a good balance of properties eg, high flexibility (200 MPa), good thermal performance and ductility at low temperatures. Flame retardant with halogen (cable covering). ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-LT-4060IH-Flexible-Nylon-Alloy-Conditioned.php

Physical Properties	Metric	English	Comments
Water Absorption	4.2 %	4.2 %	
Moisture Absorption at Equilibrium	1.1 %	1.1 %	Humidity Absorption
Melt Flow	7.0 g/10 min	7.0 g/10 min	
	@Load 2.16 kg, Temperature 235 °C	@Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	21.0 MPa	3050 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Tensile Modulus	0.300 GPa	43.5 ksi	1 mm/min
Charpy Impact, Notched	8.20 J/cm²	39.0 ft-lb/in²	
	0.900 J/cm²	4.28 ft-lb/in²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10°C/min
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	
Surface Resistance	1.30e+13 ohm	1.30e+13 ohm	

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.8	4.8	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	39.0 kV/mm	991 kV/in	
Dissipation Factor	0.0060	0.0060	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.123	0.123	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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