

Arkema Group Orgalloy® LT 4060 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. Demonstrates a good balance of properties eg, high flexibility (200 MPa), good thermal performance and ductility at low temperatures. LT 4060 : standard grade, injection molding or tubes, mandrels ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
Water Absorption	5.0 %	5.0 %	
Moisture Absorption at Equilibrium	1.1 %	1.1 %	Humidity Absorption
Melt Flow	1.0 g/10 min @Load 5.00 kg, Temperature 235 °C	1.0 g/10 min @Load 11.0 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.0 MPa	2900 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	10 %	10 %	50 mm/min
Tensile Modulus	0.200 GPa	29.0 ksi	1 mm/min
Charpy Impact, Notched	NB	NB	
	2.20 J/cm ² @Temperature -30.0 °C	10.5 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	217 °C	423 °F	10°C/min
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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