Arkema Group Orgalloy® LT 5050ES 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 (500 MPa), good thermal performance and ductility at low temperatures.Suited to blow molding of technical parts under the hood (air intake). Sequential extrusion with RS or LE series (rigid flexible combinations). Blow molding of large parts.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-LT-5050ES-Flexible-Nylon-Alloy-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	
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	23.0 MPa	3340 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	10 %	10 %	50 mm/min
Tensile Modulus	0.460 GPa	66.7 ksi	1 mm/min
Tensile Creep Modulus, 1 hour	420 MPa	60900 psi	
Tensile Creep Modulus, 1000 hours	270 MPa	39200 psi	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °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
Electrical Resistivity	7.40e+13 ohm-cm	7.40e+13 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.8 @Frequency 100 Hz	3.8 @Frequency 100 Hz	
Dielectric Strength	36.0 kV/mm	914 kV/in	
Dissipation Factor	0.050 @Frequency 1e+6 Hz	0.050 @Frequency 1e+6 Hz	
	0.11 @Frequency 100 Hz	0.11 @Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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