

Arkema Group Orgalloy® LT 6040 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 the extrusion of mandrels and for blow molding of technical parts under the hood (air intake). ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-LT-6040-Flexible-Nylon-Alloy-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	
Melt Flow	5.5 g/10 min	5.5 g/10 min	
	@Load 5.00 kg, Temperature 235 °C	@Load 11.0 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.0 MPa	3920 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	9.0 %	9.0 %	50 mm/min
Tensile Modulus	0.600 GPa	87.0 ksi	1 mm/min
Tensile Creep Modulus, 1 hour	520 MPa	75400 psi	
Tensile Creep Modulus, 1000 hours	350 MPa	50800 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	170 µm/m-°C	94.4 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	177 µm/m-°C	98.3 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	220 °C	428 °F	10°C/min
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	7.80e+13 ohm-cm	7.80e+13 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Dielectric Constant	3.7	3.7	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	4.1	4.1	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	
Dissipation Factor	0.050	0.050	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.13	0.13	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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