

Arkema Group Orgalloy® R 60ES Nylon 6 Alloy (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Extruded

Material Notes:

Rigid polyamide 6 alloy: easy to process, low moisture absorption, chemical resistance (no known solvents). Blow extrusion grade for technical films: thermal resistance, barrier to gases and aromas, mechanical properties. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-R-60ES-Nylon-6-Alloy-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Water Absorption	3.3 %	3.3 %	
Moisture Absorption at Equilibrium	1.3 %	1.3 %	Humidity Absorption
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 235 °C	2.0 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	3.4 %	3.4 %	50 mm/min
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min
Tensile Creep Modulus, 1 hour	2030 MPa	294000 psi	
Tensile Creep Modulus, 1000 hours	870 MPa	126000 psi	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	
Vicat Softening Point	129 °C	264 °F	50°C/hr; 50N
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB	HB	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	Comments
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Electrical Properties	Metric	English	Comments
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Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Dielectric Constant	2.5	2.5	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	3.1	3.1	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	38.0 kV/mm	965 kV/in	
Dissipation Factor	0.025	0.025	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	0.062	0.062	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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