

Arkema Group Orgalloy® RS 60E10TL Nylon 6 Alloy, Rigid Grade (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

RS 60 series, rigid polyamide 6 alloy: easy to process, chemical resistance (no known solvents) and low moisture absorption leading to stability of mechanical, electrical and dimensional properties. Impact modified - Balanced properties between stiffness and impact resistance at low temperatures. Better UV resistance. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-RS-60E10TL-Nylon-6-Alloy-Rigid-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in³	
Water Absorption	3.2 %	3.2 %	
Moisture Absorption at Equilibrium	1.3 %	1.3 %	Humidity Absorption
Melt Flow	14 g/10 min @Load 5.00 kg, Temperature 235 °C	14 g/10 min @Load 11.0 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	42.0 MPa	6090 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	4.5 %	4.5 %	50 mm/min
Tensile Modulus	1.62 GPa	235 ksi	1 mm/min

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C @Temperature 20.0 °C	61.1 µin/in-°F @Temperature 68.0 °F	
CTE, linear, Transverse to Flow	143 µm/m-°C @Temperature 20.0 °C	79.4 µin/in-°F @Temperature 68.0 °F	
Melting Point	220 °C	428 °F	10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	
Flammability, UL94	HB	HB	

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	
Surface Resistance	$\geq 1.00 \times 10^{15}$ ohm	$\geq 1.00 \times 10^{15}$ ohm	
Dielectric Constant	2.5	2.5	
	@Frequency 100 Hz	@Frequency 100 Hz	
	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	
	0.070	0.070	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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