

Arkema Group Orgalloy® RS 6000 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. Non reinforced for injection molding or for the extrusion of tubes. Standard grade. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-RS-6000-Nylon-6-Alloy-Rigid-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
Water Absorption	3.3 %	3.3 %	
Moisture Absorption at Equilibrium	1.3 %	1.3 %	Humidity Absorption
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 235 °C	8.0 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
CTE, linear, Parallel to Flow	93.0 µm/m-°C	51.7 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	133 µm/m-°C	73.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	220 °C	428 °F	10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	75.0 °C Metric	167 °F English	Comments
Vicat Softening Point	129 °C	264 °F	50°C/hr; 50N
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	>= 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	
	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	
	0.062	0.062	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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