

Arkema Group Orgalloy® RS 6030 AT Nylon 6 Alloy, 30% Glass Fiber (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

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. 30 % glass filled, conductive, for injection molding of technical parts and for extrusion of profiles. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-RS-6030-AT-Nylon-6-Alloy-30-Glass-Fiber-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	
Water Absorption	2.3 %	2.3 %	
Moisture Absorption at Equilibrium	0.90 %	0.90 %	Humidity Absorption
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 235 °C	5.0 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	120 MPa	17400 psi	5 mm/min
Elongation at Break	3.5 %	3.5 %	5 mm/min
Tensile Modulus	7.50 GPa	1090 ksi	1 mm/min
Charpy Impact, Notched	0.550 J/cm ²	2.62 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	5740 MPa	833000 psi	
Tensile Creep Modulus, 1000 hours	4050 MPa	587000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 µm/m-°C @Temperature 20.0 °C	10.6 µin/in-°F @Temperature 68.0 °F	
CTE, linear, Transverse to Flow	126 µm/m-°C @Temperature 20.0 °C	70.0 µin/in-°F @Temperature 68.0 °F	
Melting Point	220 °C	428 °F	10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	
Vicat Softening Point	183 °C	361 °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	430000 ohm-cm	430000 ohm-cm	
Surface Resistance	55000 ohm	55000 ohm	

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