

Arkema Group Orgalloy® RS 6030 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, 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-Nylon-6-Alloy-30-Glass-Fiber-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 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	130 MPa	18900 psi	5 mm/min
Elongation at Break	3.9 %	3.9 %	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	10.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	126 µm/m-°C	70.0 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)	210 °C	410 °F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	190 °C Metric	374 °F English	Comments
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	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Dielectric Constant	2.6	2.6	
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.4	3.4	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	
Dissipation Factor	0.023	0.023	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.064	0.064	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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