

Arkema Group Orgalloy® RS 6635 A Nylon 66 Alloy, 35% Glass Fiber (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

Material Notes:

RS 66 series, rigid polyamide 66 alloy: easy to process, chemical resistance (no known solvents) and low moisture absorption leading to stability of mechanical, electrical and dimensional properties. For injection molding. 35% glass fiber, with improved hydrolysis and thermal resistance. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-RS-6635-A-Nylon-66-Alloy-35-Glass-Fiber-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	
Water Absorption	1.7 %	1.7 %	
Moisture Absorption at Equilibrium	0.70 %	0.70 %	Humidity Absorption
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 275 °C	6.0 g/10 min @Load 4.76 lb, Temperature 527 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	160 MPa	23200 psi	5 mm/min
Elongation at Break	3.4 %	3.4 %	5 mm/min
Tensile Modulus	9.60 GPa	1390 ksi	1 mm/min
Tensile Creep Modulus, 1 hour	9320 MPa	1.35e+6 psi	
Tensile Creep Modulus, 1000 hours	6240 MPa	905000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.0 µm/m-°C	9.44 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	255 °C	491 °F	10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	225 °C Metric	437 °F English	Comments
Vicat Softening Point	200 °C	392 °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	3.0	3.0	
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.1	4.1	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	
Comparative Tracking Index	600 V	600 V	

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