

## Arkema Group Orgalloy® RS 6630 Nylon 66 Alloy, 30% Glass Fiber (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% 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 30% Glass fiber filled, for injection molding 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-6630-Nylon-66-Alloy-30-Glass-Fiber-Conditioned.php](http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-RS-6630-Nylon-66-Alloy-30-Glass-Fiber-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in <sup>3</sup>	
Water Absorption	1.9 %	1.9 %	
Moisture Absorption at Equilibrium	0.70 %	0.70 %	Humidity Absorption
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 275 °C	8.0 g/10 min @Load 4.76 lb, Temperature 527 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	140 MPa	20300 psi	5 mm/min
Elongation at Break	4.0 %	4.0 %	5 mm/min
Tensile Modulus	8.80 GPa	1280 ksi	1 mm/min
Tensile Creep Modulus, 1 hour	7890 MPa	1.14e+6 psi	
Tensile Creep Modulus, 1000 hours	5620 MPa	815000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 µm/m-°C	10.0 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	110 µm/m-°C	61.1 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	195 °C	383 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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