

## Arkema Group Orgalloy® RS 6010 Nylon 6 Alloy, 10% Glass Fiber Reinforced (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 10% 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. RS 6010: 10 % glass fiber, balanced properties between impact resistance, stiffness, density. 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-6010-Nylon-6-Alloy-10-Glass-Fiber-Reinforced-Conditioned.php](http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-RS-6010-Nylon-6-Alloy-10-Glass-Fiber-Reinforced-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in <sup>3</sup>	
Water Absorption	3.0 %	3.0 %	
Moisture Absorption at Equilibrium	1.2 %	1.2 %	Humidity Absorption
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 235 °C	6.0 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	80.0 MPa	11600 psi	5 mm/min
Elongation at Break	4.8 %	4.8 %	5 mm/min
Tensile Modulus	3.30 GPa	479 ksi	1 mm/min
Tensile Creep Modulus, 1 hour	2530 MPa	367000 psi	
Tensile Creep Modulus, 1000 hours	1790 MPa	260000 psi	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB	HB	

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
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	
Dielectric Strength	3.2	3.2	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	36.0 kV/mm	914 kV/in	
Dissipation Factor	0.024	0.024	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	0.063	0.063	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China