

## Arkema Group Orgalloy® RS 6015 EST Nylon 6 Alloy, 18% Glass Fiber (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% 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 6015EST: 18% glass fiber, for blow molding of technical parts under the hood (air intake), high temperature resistance. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Orgalloy-RS-6015-EST-Nylon-6-Alloy-18-Glass-Fiber-Conditioned.php](http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-RS-6015-EST-Nylon-6-Alloy-18-Glass-Fiber-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	
Water Absorption	2.8 %	2.8 %	
Moisture Absorption at Equilibrium	1.1 %	1.1 %	Humidity Absorption
Melt Flow	1.3 g/10 min @Load 2.16 kg, Temperature 235 °C	1.3 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	110 MPa	16000 psi	5 mm/min
Elongation at Break	3.5 %	3.5 %	5 mm/min
Tensile Modulus	3.50 GPa	508 ksi	1 mm/min
Charpy Impact, Notched	1.10 J/cm <sup>2</sup>	5.24 ft-lb/in <sup>2</sup>	
	0.700 J/cm <sup>2</sup> @Temperature -30.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	2700 MPa	392000 psi	
Tensile Creep Modulus, 1000 hours	1920 MPa	278000 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)	175 °C	347 °F	

Thermal Properties	HB Metric	HB English	Comments
	@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	
Dielectric Strength	3.3	3.3	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.024	0.024	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.063	0.063	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

## Contact Songhan Plastic Technology Co.,Ltd.

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