

## Arkema Group Orgalloy® RS 6020 Nylon 6 Alloy, 20% 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 6020: 20% 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-6020-Nylon-6-Alloy-20-Glass-Fiber-Conditioned.php](http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-RS-6020-Nylon-6-Alloy-20-Glass-Fiber-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in <sup>3</sup>	
Water Absorption	2.6 %	2.6 %	
Moisture Absorption at Equilibrium	1.0 %	1.0 %	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	110 MPa	16000 psi	5 mm/min
Elongation at Break	3.6 %	3.6 %	5 mm/min
Tensile Modulus	4.95 GPa	718 ksi	1 mm/min
Charpy Impact, Notched	1.05 J/cm <sup>2</sup>	5.00 ft-lb/in <sup>2</sup>	
	0.840 J/cm <sup>2</sup> @Temperature -30.0 °C	4.00 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	3800 MPa	551000 psi	
Tensile Creep Modulus, 1000 hours	2680 MPa	389000 psi	

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

Thermal Properties	<sup>HB</sup> Metric	<sup>HB</sup> English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	
Surface Resistance	$\geq 1.00 \times 10^{15}$ ohm	$\geq 1.00 \times 10^{15}$ 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	
Dielectric Strength	35.0 kV/mm	889 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.

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