

## Arkema Group Orgalloy® RS 6015 BV Nylon 6 Alloy, Glass Fiber + Bead Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Bead 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 6015BV: 15 % glass fiber, 10 % glass beads for profile extrusion (low distortion, isotropy, aspect) ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	
Water Absorption	2.5 %	2.5 %	
Moisture Absorption at Equilibrium	1.0 %	1.0 %	Humidity Absorption
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 235 °C	3.0 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	87.0 MPa	12600 psi	5 mm/min
Elongation at Break	4.5 %	4.5 %	5 mm/min
Tensile Modulus	3.51 GPa	509 ksi	1 mm/min

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	62.0 µm/m-°C	34.4 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	220 °C	428 °F	10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	Comments
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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	3.4	3.4	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	
Dissipation Factor	0.023	0.023	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	0.064	0.064	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

## Contact Songhan Plastic Technology Co.,Ltd.

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