

Arkema Group Orgalloy® RS 6600 Nylon 66 Alloy, Rigid Grade (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

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. Non-reinforced grade for injection molding. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-RS-6600-Nylon-66-Alloy-Rigid-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
Water Absorption	2.9 %	2.9 %	
Moisture Absorption at Equilibrium	1.2 %	1.2 %	Humidity Absorption
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 275 °C	15 g/10 min @Load 4.76 lb, Temperature 527 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	52.0 MPa	7540 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	3.4 %	3.4 %	50 mm/min
Tensile Modulus	2.60 GPa	377 ksi	1 mm/min
Tensile Creep Modulus, 1 hour	2270 MPa	329000 psi	
Tensile Creep Modulus, 1000 hours	980 MPa	142000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 µm/m-°C @Temperature 20.0 °C	36.1 µin/in-°F @Temperature 68.0 °F	
CTE, linear, Transverse to Flow	110 µm/m-°C @Temperature 20.0 °C	61.1 µin/in-°F @Temperature 68.0 °F	
Melting Point	255 °C	491 °F	10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	

Thermal Properties Deflection Temperature at 1.8 MPa (150 psi)	80.0 °C Metric	176 °F English	Comments
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	1.9	1.9	
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.0	3.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	36.0 kV/mm	914 kV/in	
Comparative Tracking Index	600 V	600 V	

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