

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

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

Material Notes:

Rigid polyamide 6.6 alloy: easy to process, low moisture absorption, chemical resistance (no known solvents).ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Water Absorption	3.0 %	3.0 %	
Moisture Absorption at Equilibrium	1.2 %	1.2 %	Humidity Absorption
Melt Flow	18 g/10 min @Load 2.16 kg, Temperature 275 °C	18 g/10 min @Load 4.76 lb, Temperature 527 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 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	2.45 GPa	355 ksi	1 mm/min
Tensile Creep Modulus, 1 hour	2140 MPa	310000 psi	
Tensile Creep Modulus, 1000 hours	920 MPa	133000 psi	

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
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	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	
Dissipation Factor	0.017	0.017	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.025	0.025	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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