

Arkema Group Orgalloy® R 6030 Nylon 6 Alloy, 30% Glass fiber (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

Rigid polyamide 6 alloy: easy to process, low moisture absorption, chemical resistance (no known solvents). Special 30% glass fiber reinforced for overmolding with modified PP. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-R-6030-Nylon-6-Alloy-30-Glass-fiber-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in³	
Water Absorption	2.2 %	2.2 %	
Moisture Absorption at Equilibrium	0.90 %	0.90 %	Humidity Absorption
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 235 °C	4.0 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	2.9 %	2.9 %	5 mm/min
Tensile Modulus	7.20 GPa	1040 ksi	1 mm/min
Tensile Creep Modulus, 1 hour	5500 MPa	798000 psi	
Tensile Creep Modulus, 1000 hours	3890 MPa	564000 psi	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	212 °C	414 °F	
Deflection Temperature at 1.8 MPa (264 psi)	195 °C	383 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	
Oxygen Index	21 %	21 %	

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	2.6	2.6	
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.4	3.4	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	
Dissipation Factor	0.023	0.023	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.064	0.064	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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