

Arkema Group Orgalloy® RS 60M10E5 Nylon 6 Alloy, 10% Mineral Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Mineral Reinforced, Impact Grade

Material Notes:

RS 60 series rigid polyamide 6 alloy: easy to process, low moisture absorption, chemical resistance (no known solvents). Stability of mechanical, electrical and dimensional properties. Mineral filled (10%) and impact modified. Balanced properties between stiffness and impact resistance. 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-60M10E5-Nylon-6-Alloy-10-Mineral-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Water Absorption	3.1 %	3.1 %	
Moisture Absorption at Equilibrium	1.2 %	1.2 %	Humidity Absorption
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 235 °C	12 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Modulus	2.60 GPa	377 ksi	1 mm/min
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	
	0.500 J/cm ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.0 µm/m-°C @Temperature 20.0 °C	37.8 µin/in-°F @Temperature 68.0 °F	
CTE, linear, Transverse to Flow	76.0 µm/m-°C @Temperature 20.0 °C	42.2 µin/in-°F @Temperature 68.0 °F	
Melting Point	220 °C	428 °F	10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	166 °C	331 °F	
Deflection Temperature at 1.8 MPa (264 psi)	58.0 °C	136 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	

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