

Arkema Group Rilsan® AZM 30 NOIR T6LD Nylon 12, 30% Glass Fiber Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 30% Glass Fiber Filled

Material Notes:

Designation ISO 1874-PA12,MHLR,16-060,GF30Rigid grade with glass fiber (30%) for injection molding. Available color: black. Reinforced light and heat stabilizing agent. Mold-release agent.High rigidity. High compressive strength. Good thermal properties. Very low shrinkage: include 0,5% on average for the design of the mold. Low coefficient of linear expansion. High dimensional stability.UL classification: UL94 HB (3,05mm) RTI(C) 110/105/110Example applications: Quick connectors.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AZM-30-NOIR-T6LD-Nylon-12-30-Glass-Fiber-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	
Melt Flow	4.8 g/10 min	4.8 g/10 min	
	@Load 2.16 kg, Temperature 235 °C	@Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	108 MPa	15700 psi	5 mm/min
Elongation at Break	5.0 %	5.0 %	5 mm/min
Tensile Modulus	7.43 GPa	1080 ksi	1 mm/min
Charpy Impact Unnotched	7.70 J/cm ²	36.6 ft-lb/in ²	
	6.39 J/cm ² @Temperature -30.0 °C	30.4 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	1.63 J/cm ²	7.76 ft-lb/in ²	
	0.980 J/cm ² @Temperature -30.0 °C	4.66 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C	27.8 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	174 °C	345 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	175 °C	347 °F	

Thermal Properties Deflection Temperature at 1.8 MPa (150 psi)	Metric 170 °C	English 328 °F	Comments
Vicat Softening Point	165 °C	329 °F	50°C/hr; 50N
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.10 mm	@Thickness 0.122 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Strength	45.0 kV/mm	1140 kV/in	
Comparative Tracking Index	600 V	600 V	

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