

Arkema Group Rilsan® AUM 50 NOIR T6LD Nylon 12, 50% Glass Bead Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Glass Bead Filled

Material Notes:

Designation ISO 1874-PA12,MHLR,16-020,GB50Rigid grad with glass beads filler (50%) for injection molding. Available color: black. Reinforced light and heat stabilizing agents. Mold-release agent.Good mechanical properties. Reinforced isotropic performances. High compressive strength. Very low shrinkage: include 0,5% on average for the design of the mold. High dimensional stability (low moisture absorption). Low coefficient of linear expansion.Potable water contact approval WRC 950 1509.Example applications: Mechanical parts with dimensional precision.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AUM-50-NOIR-T6LD-Nylon-12-50-Glass-Bead-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in³	
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 235 °C	5.0 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	49.0 MPa	7110 psi	50 mm/min
Elongation at Break	18 %	18 %	Nominal Strain; 50 mm/min
Elongation at Yield	5.0 %	5.0 %	50 mm/min
Tensile Modulus	3.13 GPa	454 ksi	1 mm/min
Charpy Impact Unnotched	8.01 J/cm²	38.1 ft-lb/in²	
	6.11 J/cm² @Temperature -30.0 °C	29.1 ft-lb/in² @Temperature -22.0 °F	
Charpy Impact, Notched	0.440 J/cm²	2.09 ft-lb/in²	
	0.380 J/cm² @Temperature -30.0 °C	1.81 ft-lb/in² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 µm/m-°C @Temperature 20.0 °C	33.3 µin/in-°F @Temperature 68.0 °F	
Melting Point	174 °C	345 °F	(Dry)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	322 °F	
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	
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+13 ohm	1.00e+13 ohm	
Dielectric Strength	40.0 kV/mm	1020 kV/in	
Comparative Tracking Index	600 V	600 V	

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