

Arkema Group Rilsan® AUM 30 T6LD Nylon 12, 30% Glass Bead Filled (Conditioned)

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

Material Notes:

Designation ISO 1874-PA12,MHLR,16-020,GB30Rigid grad with glass beads filler (30%) for injection molding. Available colors: black and natural. Light and heat stabilized. Mold-release agent.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.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-30-T6LD-Nylon-12-30-Glass-Bead-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	
Melt Flow	70.8 g/10 min	70.8 g/10 min	
	@Load 2.16 kg, Temperature 235 °C	@Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	39.0 MPa	5660 psi	50 mm/min
Elongation at Break	32 %	32 %	Nominal Strain; 50 mm/min
Elongation at Yield	6.0 %	6.0 %	50 mm/min
Tensile Modulus	1.72 GPa	249 ksi	1 mm/min
Charpy Impact Unnotched	4.72 J/cm ²	22.5 ft-lb/in ²	
	4.95 J/cm ² @Temperature -30.0 °C	23.6 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	0.560 J/cm ²	2.67 ft-lb/in ²	
	0.450 J/cm ² @Temperature -30.0 °C	2.14 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	174 °C	345 °F	(Dry)
Deflection Temperature at 0.46 MPa	155 °C	311 °F	

<small>(55 psi)</small> Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	
Vicat Softening Point	160 °C	320 °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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