

Arkema Group Rilsan® BZM 30 TL Nylon 11, 30% Glass Fiber Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11 with 30% Glass Fiber Filler

Material Notes:

Designation ISO 1874-PA11,MHL,18-050,GF30Rigid grade with glass fiber (30%) filler for injection molding. Available colors: black and natural. Light and heat stabilized.Rigidity. High compressive strength. Low linear expansion coefficient. Low shrinkage: include 0,5% on average for the design of the mold. High dimensional stability.UL classification: UL94 HB RTI(C) 65/65/65Example applications: Wind turbine, casing.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BZM-30-TL-Nylon-11-30-Glass-Fiber-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	
Melt Flow	1.8 g/10 min	1.8 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	112 MPa	16200 psi	5 mm/min
Elongation at Break	8.0 %	8.0 %	5 mm/min
Tensile Modulus	7.80 GPa	1130 ksi	1 mm/min
Charpy Impact Unnotched	8.24 J/cm ²	39.2 ft-lb/in ²	
	8.39 J/cm ² @Temperature -30.0 °C	39.9 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	2.06 J/cm ²	9.80 ft-lb/in ²	
	1.20 J/cm ² @Temperature -30.0 °C	5.71 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	183 °C	361 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	180 °C	356 °F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	Metric <small>175 °C</small>	English <small>347 °F</small>	Comments
Vicat Softening Point	170 °C	338 °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	
Oxygen Index	22 %	22 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	7.00e+13 ohm-cm	7.00e+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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