

Arkema Group Rilsan® BZM 23 G9 Nylon 11, 23% Glass Fiber Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11 with 20% Glass Fiber Filler

Material Notes:

Designation ISO 1874-PA11,MS,18-040,(G+C)(F+D)(25+05)Rigid grade with glass fiber (23%) and graphite filler for injection molding. Available color: steel black gray. Additive free.Rigidity. Low friction coefficient. Abrasion resistance. 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: Mechanical parts with friction such as gear or bearing.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BZM-23-G9-Nylon-11-23-Glass-Fiber-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	
Melt Flow	2.2 g/10 min @Load 2.16 kg, Temperature 235 °C	2.2 g/10 min @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	7.30 GPa	1060 ksi	1 mm/min
Charpy Impact Unnotched	7.40 J/cm ²	35.2 ft-lb/in ²	
	8.29 J/cm ² @Temperature -30.0 °C	39.5 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	1.25 J/cm ²	5.95 ft-lb/in ²	
	0.990 J/cm ² @Temperature -30.0 °C	4.71 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C @Temperature 20.0 °C	27.8 µin/in-°F @Temperature 68.0 °F	
Melting Point	183 °C	361 °F	(Dry)
Deflection Temperature at 0.46 MPa	178 °C	352 °F	

<small>(56 psi)</small> Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	
Vicat Softening Point	170 °C	338 °F	50°C/hr; 50N
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Flammability, UL94	HB	HB	
	@Thickness 3.10 mm	@Thickness 0.122 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.00e+13 ohm-cm	2.00e+13 ohm-cm	
Surface Resistance	6.00e+12 ohm	6.00e+12 ohm	
Dielectric Strength	22.0 kV/mm	559 kV/in	
Comparative Tracking Index	300 V	300 V	

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