

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

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-Dry.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	
Water Absorption	1.2 %	1.2 %	
Melt Flow	2.2 g/10 min	2.2 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	110 MPa	16000 psi	5 mm/min
Elongation at Break	5.0 %	5.0 %	5 mm/min
Tensile Modulus	7.69 GPa	1120 ksi	1 mm/min
Charpy Impact Unnotched	7.80 J/cm ²	37.1 ft-lb/in ²	
	8.49 J/cm ² @Temperature -30.0 °C	40.4 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	1.27 J/cm ²	6.04 ft-lb/in ²	
	0.940 J/cm ² @Temperature -30.0 °C	4.47 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	183 °C	361 °F	10°C/min
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	

Thermal Properties	Metric	English	Comments
	@ Thickness 3.10 mm	@ Thickness 0.122 in	

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.00046	0.00046	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.000517	0.000517	
	@Frequency 100 Hz	@Frequency 100 Hz	

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