

## Arkema Group Rilsan® BZM 43 G9 Nylon 11, 43% Glass Fiber Filled (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11 with 40% Glass Fiber Filler

### Material Notes:

Designation ISO 1874-PA11,MS,18-080,(G+C)(F+D)(45+05)Rigid grade with glass fiber (43%) and graphite filler for injection molding.

Available color: steel black gray. Additive free.High rigidity. High compressive strength. Low friction coefficient. Abrasion resistance. Low linear expansion coefficient. Low shrinkage: include 0,5% on average for the design of the mold. High dimensional stability.Example 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-43-G9-Nylon-11-43-Glass-Fiber-Filled-Dry.php](http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BZM-43-G9-Nylon-11-43-Glass-Fiber-Filled-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	
Water Absorption	1.1 %	1.1 %	
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	146 MPa	21200 psi	5 mm/min
Elongation at Break	4.0 %	4.0 %	5 mm/min
Tensile Modulus	12.4 GPa	1800 ksi	1 mm/min
Charpy Impact Unnotched	6.69 J/cm <sup>2</sup>	31.8 ft-lb/in <sup>2</sup>	
	7.50 J/cm <sup>2</sup> @Temperature -30.0 °C	35.7 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	
Charpy Impact, Notched	1.21 J/cm <sup>2</sup>	5.76 ft-lb/in <sup>2</sup>	
	1.02 J/cm <sup>2</sup> @Temperature -30.0 °C	4.85 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	

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

Thermal Properties	@Thickness 3.10 mm Metric	@Thickness 0.122 in English	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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