

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

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-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	
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	143 MPa	20700 psi	5 mm/min
Elongation at Break	4.0 %	4.0 %	5 mm/min
Tensile Modulus	11.7 GPa	1700 ksi	1 mm/min
Charpy Impact Unnotched	7.41 J/cm ²	35.3 ft-lb/in ²	
	7.29 J/cm ² @Temperature -30.0 °C	34.7 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	1.22 J/cm ²	5.81 ft-lb/in ²	
	0.980 J/cm ² @Temperature -30.0 °C	4.66 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C	16.7 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	180 °C	356 °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	4.00e+13 ohm-cm	4.00e+13 ohm-cm	
Surface Resistance	8.00e+12 ohm	8.00e+12 ohm	
Dielectric Strength	22.0 kV/mm	559 kV/in	
Comparative Tracking Index	275 V	275 V	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China