

Arkema Group Rilsan® BMN Y BZ TL Nylon 11, Bronze Bead Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 11

Material Notes:

Designation ISO 1874-PA11,MHLS,16-020,(Z+M)(B+D)(80BZ+05)Rigid grade with bronze beads (85%) and molybdenum fillers for injection molding. Available color: steel brown. Light and heat stabilized.No need of lubricant. Low friction coefficient. High density (d=4). Outstanding compressive strength. High thermal conductivity. High dimensional stability (low moisture absorption).Example applications: Auto-lubricating bearing.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BMN-Y-BZ-TL-Nylon-11-Bronze-Bead-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Density	3.80 g/cc	0.137 lb/in ³	
Melt Flow	17.7 g/10 min	17.7 g/10 min	
	@Load 5.00 kg, Temperature 235 °C	@Load 11.0 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	34.0 MPa	4930 psi	5 mm/min
Elongation at Break	4.0 %	4.0 %	5 mm/min
Tensile Modulus	4.60 GPa	667 ksi	1 mm/min
Charpy Impact Unnotched	1.69 J/cm ²	8.04 ft-lb/in ²	
	1.96 J/cm ² @Temperature -30.0 °C	9.33 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	0.390 J/cm ²	1.86 ft-lb/in ²	
	0.380 J/cm ² @Temperature -30.0 °C	1.81 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 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)	170 °C	338 °F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (1.8 MPa)</small>	Metric <small>100 °C</small>	English <small>212 °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	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	10000 ohm-cm	10000 ohm-cm	

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