

## Arkema Group Rilsan® MB 3000 Nylon 11, Sheathing Grade (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11, Cable Sheathing Grade

### Material Notes:

Designation ISO 1874-PA11,MF,12-010Polyvalent rigid grade for injection molding and sheathing of cables. Available color: natural. Flame retardant agent, halogen free. Fire-resistant. Easy to be processed for injection molding and sheathing of cables. Low shrinkage for molding: include 1% on average for the mold design.UL classification: UL94 V0 (3mm) RTI(C) 65/65/65Example applications: Electrical cables, all pieces with fireproofing required.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Rilsan-MB-3000-Nylon-11-Sheathing-Grade-Dry.php](http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-MB-3000-Nylon-11-Sheathing-Grade-Dry.php)

Physical Properties	Metric	English	Comments
Water Absorption	1.96 %	1.96 %	
Moisture Absorption at Equilibrium	0.64 %	0.64 %	Humidity Absorption
Melt Flow	95.1 g/10 min @Load 2.16 kg, Temperature 235 °C	95.1 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.0 MPa	7400 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	5.0 %	5.0 %	50 mm/min
Tensile Modulus	2.07 GPa	300 ksi	1 mm/min
Charpy Impact Unnotched	0.850 J/cm <sup>2</sup> @Temperature -30.0 °C	4.05 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	
Charpy Impact, Notched	0.420 J/cm <sup>2</sup> @Temperature -30.0 °C	2.00 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	102 µm/m-°C @Temperature 20.0 °C	56.7 µin/in-°F @Temperature 68.0 °F	
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Oxygen Index	33 %	33 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Dielectric Strength	28.5 kV/mm	724 kV/in	
Dissipation Factor	0.000315	0.000315	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.000328	0.000328	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

## Contact Songhan Plastic Technology Co.,Ltd.

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