

## Arkema Group Rilsan® BMN D Nylon 11 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11, Unreinforced

### Material Notes:

Designation ISO 1874-PA11,MR,12-010 Rigid grade for injection molding. Available colors: black, blue, natural, orange, white. Mold release agent. High mechanical properties. Easy filling of the mold due to its well adapted melt viscosity. Low shrinkage: include 1% on average for the design of the mold. Very good dimensional stability (low moisture absorption). Example applications: Mechanical parts for all industrial field. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Rilsan-BMN-D-Nylon-11-Conditioned.php](http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BMN-D-Nylon-11-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	
Melt Flow	36.5 g/10 min	36.5 g/10 min	
	@Load 2.16 kg, Temperature 235 °C	@Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	10 %	10 %	50 mm/min
Tensile Modulus	1.07 GPa	155 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	1.40 J/cm <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	
	1.06 J/cm <sup>2</sup>	5.04 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 µm/m-°C	47.2 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)	145 °C	293 °F	
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	50.0 °C Metric	122 °F English	Comments
Vicat Softening Point	160 °C	320 °F	50°C/hr; 50N
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Comparative Tracking Index	600 V	600 V	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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