

## Arkema Group Rilsan® BMN P40 D Nylon 11 (Conditioned)

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

### Material Notes:

Designation ISO 1874-PA11-P,MR,12-003Flexible grade for injection molding. Available colors: black, natural and white. Mold release agent.Flexibility. Outstanding working 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. Good dimensional stability (low moisture absorption).UL classification: UL94 HB RTI(C) 65/65/65Example applications: Flexible mechanical parts with impact and vibrations resistance.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Rilsan-BMN-P40-D-Nylon-11-Conditioned.php](http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BMN-P40-D-Nylon-11-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	
Melt Flow	11.2 g/10 min	11.2 g/10 min	
	@Load 2.16 kg, Temperature 235 °C	@Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	30 %	30 %	50 mm/min
Tensile Modulus	0.375 GPa	54.4 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	NB	NB	
	0.660 J/cm <sup>2</sup> @Temperature -30.0 °C	3.14 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C	61.1 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	175 °C	347 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (204 psi)</small>	Metric	English	Comments
Vicat Softening Point	140 °C	284 °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	1.00e+11 ohm-cm	1.00e+11 ohm-cm	
Surface Resistance	5.00e+11 ohm	5.00e+11 ohm	
Dielectric Strength	23.0 kV/mm	584 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