

## Arkema Group Rilsan® BESN P20 TL Nylon 11, Flexible Tubing Grade (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11, Flexible Tubing Grade

### Material Notes:

Designation ISO 1874-PA11-P,EHL,22-004Flexible grade for tubes extrusion. Available color: black and natural. Light and heat stabilized.Flexibility. High impact strength. Very good chemical resistance. Ability to be processed at high speed.Example applications: Flexible tubes for automotive.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Rilsan-BESN-P20-TL-Nylon-11-Flexible-Tubing-Grade-Conditioned.php](http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BESN-P20-TL-Nylon-11-Flexible-Tubing-Grade-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	
Melt Flow	2.0 g/10 min @Load 5.00 kg, Temperature 235 °C	2.0 g/10 min @Load 11.0 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 MPa	4350 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	20 %	20 %	50 mm/min
Tensile Modulus	0.480 GPa	69.6 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	NB	NB	
	0.900 J/cm <sup>2</sup> @Temperature -30.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C @Temperature 20.0 °C	55.6 µin/in-°F @Temperature 68.0 °F	
Melting Point	183 °C	361 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	47.0 °C Metric	117 °F English	Comments
Vicat Softening Point	146 °C	295 °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+12 ohm-cm	1.00e+12 ohm-cm	
Surface Resistance	2.00e+12 ohm	2.00e+12 ohm	
Dielectric Strength	24.0 kV/mm	610 kV/in	

## Contact Songhan Plastic Technology Co.,Ltd.

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