

Arkema Group Rilsan® BESN TL Nylon 11, Rigid Tubing Grade (Conditioned)

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

Material Notes:

Designation ISO 1874-PA11,EHL,22-010Rigid grade for tubes extrusion. Available colors: black and natural. Light and heat stabilized.High impact strength. High burst pressure. Good chemical resistance. Ability to be processed at high speed. Easy to color (sublimation).Example applications: Pneumatic suspension line.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BESN-TL-Nylon-11-Rigid-Tubing-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Melt Flow	1.0 g/10 min	1.0 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	42.0 MPa	6090 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	8.0 %	8.0 %	50 mm/min
Tensile Modulus	1.26 GPa	183 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	1.49 J/cm ²	7.09 ft-lb/in ²	
	1.32 J/cm ² @Temperature -30.0 °C	6.28 ft-lb/in ² @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)	50.0 °C	122 °F	

Vicat Softening Point Thermal Properties	160 °C Metric	320 °F English	50°C/br: 50N Comments
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	
Oxygen Index	25 %	25 %	

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	

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