

Arkema Group Rilsan® BECN W3 TL Nylon 11, Sheathing Grade (Conditioned)

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

Material Notes:

Designation ISO 1874-PA11,KFHL,12-010 Rigid grade for sheathing wires and cables. Available color: natural. Light and heat stabilized. Flame retardant agent. Fire-resistant. High abrasion resistance. Well adapted melt viscosity. Ability to be processed in thin wall thickness. Easy to color. Example applications: Coating of electrical and telephone cable. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BECN-W3-TL-Nylon-11-Sheathing-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	
Melt Flow	27.5 g/10 min	27.5 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	43.0 MPa	6240 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	6.0 %	6.0 %	50 mm/min
Tensile Modulus	1.86 GPa	270 ksi	1 mm/min

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C	55.6 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)	156 °C	313 °F	
Deflection Temperature at 1.8 MPa (264 psi)	52.0 °C	126 °F	
Vicat Softening Point	165 °C	329 °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	

Oxygen Index Thermal Properties	30 % Metric	30 % English	Comments
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	20.0 kV/mm	508 kV/in	
Comparative Tracking Index	600 V	600 V	

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