

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

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

Material Notes:

Designation ISO 1874-PA11,KHL,12-010 Rigid grade for sheathing of wires and cables. Available color: natural. Light and heat stabilized. High abrasion resistance. Well adapted melt viscosity. Ability to be processed in thin wall thickness. UL classification: UL94 V2; RTI(C) 65/65/65 Example applications: Coating of electrical and telephone cables, loose tubes for optical fiber. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Melt Flow	29.8 g/10 min @Load 2.16 kg, Temperature 235 °C	29.8 g/10 min @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	1.44 GPa	209 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	
	1.06 J/cm ² @Temperature -30.0 °C	5.04 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C @Temperature 20.0 °C	50.0 µin/in-°F @Temperature 68.0 °F	
Melting Point	183 °C	361 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	55.0 °C Metric	131 °F English	Comments
Vicat Softening Point	160 °C	320 °F	50°C/hr; 50N
UL RTI, Electrical	65.0 °C	149 °F	
UL RTI, Mechanical with Impact	65.0 °C	149 °F	
UL RTI, Mechanical without Impact	65.0 °C	149 °F	
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	
Comparative Tracking Index	600 V	600 V	

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