

Arkema Group Rilsan® AECN TL Nylon 12, Cable Sheathing Grade (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Extrusion/Tubing Grade

Material Notes:

Designation ISO 1874-PA12,KHL,14-010 Extrusion grade for the sheathing of wires and cables. Available colors: natural and orange. Heat and light stabilized. Low melt viscosity. High speed extrusion. Very good ability to be processed in thin wall thickness. Easy to color. Example applications: Coating of cables with fine-gauge, telephone cables, loose tube for optical fibers. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AECN-TL-Nylon-12-Cable-Sheathing-Grade-Dry.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	
Water Absorption	1.6 %	1.6 %	
Melt Flow	52.5 g/10 min @Load 2.16 kg, Temperature 235 °C	52.5 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	5.0 %	5.0 %	50 mm/min
Tensile Modulus	1.65 GPa	239 ksi	1 mm/min

Thermal Properties	Metric	English	Comments
Melting Point	174 °C	345 °F	10°C/min
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	V-2 @Thickness 3.20 mm	V-2 @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	28.7 kV/mm	729 kV/in	
Dissipation Factor	0.000307 @Frequency 1e+6 Hz	0.000307 @Frequency 1e+6 Hz	

Electrical Properties	Metric ⁴⁵	English ⁴⁵	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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