

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

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-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	
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	37.0 MPa	5370 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	15 %	15 %	50 mm/min
Tensile Modulus	1.40 GPa	203 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	0.610 J/cm ²	2.90 ft-lb/in ²	
	0.590 J/cm ² @Temperature -30.0 °C	2.81 ft-lb/in ² @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	174 °C	345 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	55.0 °C Metric	131 °F English	Comments
Vicat Softening Point	142 °C	288 °F	50°C/hr; 50N
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	

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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