

Arkema Group Rilsan® AECV T8L Nylon 12, Cable Sheathing Grade (Conditioned)

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

Material Notes:

Designation ISO 1874-PA12,KHL,16-010 Extrusion grade for the sheathing of wires and cables. Available colors: black, blue, orange and white. Reinforced light and heat stabilizing agents. Anti-termites. Low melt viscosity. Easy to extrude. High UV and thermal resistance. Example applications: Coating of electric and telephone cables. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AECV-T8L-Nylon-12-Cable-Sheathing-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	
Melt Flow	11.3 g/10 min @Load 2.16 kg, Temperature 235 °C	11.3 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	47.0 MPa	6820 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	10 %	10 %	50 mm/min
Tensile Modulus	1.52 GPa	220 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
Charpy Impact, Notched	NB	NB	Low Temp
	0.690 J/cm ²	3.28 ft-lb/in ²	
	0.580 J/cm ² @Temperature -30.0 °C	2.76 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C @Temperature 20.0 °C	44.4 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	138 °C	280 °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	2.00e+8 ohm-cm	2.00e+8 ohm-cm	
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	
Dielectric Strength	40.0 kV/mm	1020 kV/in	
Comparative Tracking Index	600 V	600 V	

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