

Arkema Group Rilsan® AESN P40 TL Nylon 12, Flexible Tubing Grade (Conditioned)

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

Material Notes:

Designation ISO 1874-PA12-P,EHL,22-004Flexible grade for tubes extrusion. Available colors: black and natural. Light and heat stabilized.High impact strength. High burst pressure. Very good chemical resistance. Easy to be processed.Example applications: Pneumatic control tubes, Fuel line.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AESN-P40-TL-Nylon-12-Flexible-Tubing-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
Melt Flow	5.6 g/10 min @Load 2.16 kg, Temperature 235 °C	5.6 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.0 MPa	3480 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	25 %	25 %	50 mm/min
Tensile Modulus	0.415 GPa	60.2 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	NB	NB	
	0.390 J/cm ² @Temperature -30.0 °C	1.86 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 µm/m-°C @Temperature 20.0 °C	77.8 µin/in-°F @Temperature 68.0 °F	
Melting Point	168 °C	334 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	125 °C	257 °F	
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	46.0 °C Metric	115 °F English	Comments
Vicat Softening Point	130 °C	266 °F	50°C/hr; 50N
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	
Surface Resistance	5.00e+11 ohm	5.00e+11 ohm	
Dielectric Strength	24.0 kV/mm	610 kV/in	
Comparative Tracking Index	600 V	600 V	

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