

Arkema Group Rilsan® 8020 Nylon 11, Flexible Tubing Grade (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11, Flexible Tubing Grade

Material Notes:

Designation ISO 1874-PA11/xx,E,16-003 Transparent and flexible copolymer for tubes extrusion. Additive free. Good flexibility. Very good transparency. High chemical resistance. USP XXIII class VI approval. Food contact approval EEC directive N 90/128. Example applications: Beer tubing, catheters. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-8020-Nylon-11-Flexible-Tubing-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	
Melt Flow	14 g/10 min	14 g/10 min	
	@Load 2.16 kg, Temperature 235 °C	@Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	28 %	28 %	50 mm/min
Tensile Modulus	0.405 GPa	58.7 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	NB	NB	
	1.22 J/cm ² @Temperature -30.0 °C	5.81 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C	50.0 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	171 °C	340 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	73.0 °C	163 °F	
Deflection Temperature at 1.8 MPa (264 psi)	40.0 °C	104 °F	

Vicat Softening Point Thermal Properties	180 °C Metric	356 °F English	50°C/hr: 50N Comments
Flammability, UL94	V-2 @Thickness 3.20 mm	V-2 @Thickness 0.126 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	Mfr. reports 'Transparent' but doesn't quantify.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	
Surface Resistance	4.00e+14 ohm	4.00e+14 ohm	
Dielectric Strength	34.0 kV/mm	864 kV/in	

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