

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

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-Dry.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	
Water Absorption	1.5 %	1.5 %	
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	28.0 MPa	4060 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	26 %	26 %	50 mm/min
Tensile Modulus	0.460 GPa	66.7 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	NB	NB	
	0.910 J/cm ²	4.33 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	171 °C	340 °F	10°C/min
Glass Transition Temp, Tg	34.0 °C	93.2 °F	10°C/min
Flammability, UL94	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	

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

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