

Arkema Group Rilsan® BESN P40 W5 TL Nylon 11, Flexible Tubing Grade (Conditioned)

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

Material Notes:

Designation ISO 1874-PA11-P,EFHL,22-003Flexible grade for tubes extrusion. Available color: milky white. Light and heat stabilized. Flame retardant agent.Fire-resistant. Flexibility. High impact strength. Very good chemical resistance. Ability to be processed at high speed.Example applications: Flexible tubes for automotive.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BESN-P40-W5-TL-Nylon-11-Flexible-Tubing-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	
Melt Flow	7.9 g/10 min @Load 2.16 kg, Temperature 235 °C	7.9 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.0 MPa	3920 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	35 %	35 %	50 mm/min
Tensile Modulus	0.580 GPa	84.1 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	NB	NB	
	0.420 J/cm ² @Temperature -30.0 °C	2.00 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C @Temperature 20.0 °C	61.1 µin/in-°F @Temperature 68.0 °F	
Melting Point	178 °C	352 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	147 °C	297 °F	
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	55.0 °C Metric	131 °F English	Comments
Vicat Softening Point	136 °C	277 °F	50°C/hr; 50N
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	27 %	27 %	

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.0 kV/mm	457 kV/in	
Comparative Tracking Index	600 V	600 V	

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