

Arkema Group Rilsan® BESN G9 TL Nylon 11, Graphite Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11 with Graphite Filler

Material Notes:

Designation ISO 1874-PA11,EHLS,18-010,CD10Grade with graphite filler for tubes extrusion. Available color: steel gray. Light and heat stabilized.No need of lubricant. Low friction coefficient. Good abrasion resistance. High chemical resistance.Example applications: Control cable tubing.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BESN-G9-TL-Nylon-11-Graphite-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	
Melt Flow	1.0 g/10 min	1.0 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	45.0 MPa	6530 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	7.0 %	7.0 %	50 mm/min
Tensile Modulus	2.10 GPa	305 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	15.4 J/cm ²	73.3 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.480 J/cm ²	2.28 ft-lb/in ²	
	0.460 J/cm ²	2.19 ft-lb/in ²	
	@Temperature -30.0 °C	@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	183 °C	361 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	168 °C	334 °F	
Deflection Temperature at 1.8 MPa	56.0 °C	133 °F	

(264 psi) Thermal Properties	Metric	English	Comments
Vicat Softening Point	162 °C	324 °F	50°C/hr; 50N
Flammability, UL94	V-2	V-2	
	@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	5.00e+13 ohm-cm	5.00e+13 ohm-cm	
Surface Resistance	6.00e+13 ohm	6.00e+13 ohm	
Dielectric Strength	55.0 kV/mm	1400 kV/in	
Comparative Tracking Index	600 V	600 V	

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