

Arkema Group Rilsan® BMN Y TLD Nylon 11, MoS2 Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 11

Material Notes:

Designation ISO 1874-PA11,MHLR,12-020,MD05Rigid grade with molybdenum filler for injection molding. Available color: steel gray. Light and heat stabilized. Mold release agent.No need of lubricant. Low friction coefficient. Abrasion resistance. Outstanding mechanical properties. Easy filling of the mold due to its well adapted melt viscosity. Low shrinkage: include 1% on average for the design of the mold. Very good dimensional stability (low moisture absorption).UL classification: UL94 V2 (3,05mm) RTI(C) 105/90/105Example applications: Moving mechanical parts with friction such as gear or bearing.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BMN-Y-TLD-Nylon-11-MoS2-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	
Melt Flow	36.2 g/10 min	36.2 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	40.0 MPa	5800 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	18 %	18 %	50 mm/min
Tensile Modulus	1.42 GPa	206 ksi	1 mm/min

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)	155 °C	311 °F	
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	
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	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Strength	55.0 kV/mm	1400 kV/in	
Comparative Tracking Index	600 V	600 V	

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