

Arkema Group Rilsan® BMN P20 D Nylon 11 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11, Unreinforced

Material Notes:

Designation ISO 1874-PA11-P,MR,12-004Flexible grade for injection molding. Available colors: black and natural. Mold release agent.Outstanding working 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. Good dimensional stability (low moisture absorption).UL classification: UL94 HB RTI(C) 65/65/65Example applications: Flexible mechanical parts with impact and vibrations resistance.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BMN-P20-D-Nylon-11-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
Melt Flow	18.3 g/10 min @Load 2.16 kg, Temperature 235 °C	18.3 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 MPa	4350 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	20 %	20 %	50 mm/min
Tensile Modulus	0.480 GPa	69.6 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	3.67 J/cm ²	17.5 ft-lb/in ²	
	0.600 J/cm ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C @Temperature 20.0 °C	55.6 µin/in-°F @Temperature 68.0 °F	
Melting Point	183 °C	361 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	47.0 °C Metric	117 °F English	Comments
Vicat Softening Point	145 °C	293 °F	50°C/hr; 50N
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.10 mm	@Thickness 0.122 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	
Surface Resistance	2.00e+12 ohm	2.00e+12 ohm	
Dielectric Strength	26.0 kV/mm	660 kV/in	
Comparative Tracking Index	600 V	600 V	

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