

Arkema Group Rilsan® BMF Nylon 11 (Dry)

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

Material Notes:

Designation ISO 1874-PA11,M,12-010 Rigid grade for injection molding. Available color: natural. Additive free. Good melt viscosity.

Outstanding ability to mold part with high length-thickness ratio and complex shape. Low shrinkage: include 1% on average for the design of the mold. Very good dimensional stability (low moisture absorption). Example applications: Protective case. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BMF-Nylon-11-Dry.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Water Absorption	1.9 %	1.9 %	
Melt Flow	56 g/10 min @Load 2.16 kg, Temperature 235 °C	56 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	43.0 MPa	6240 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	5.0 %	5.0 %	50 mm/min
Tensile Modulus	1.53 GPa	222 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	
	1.10 J/cm ² @Temperature -30.0 °C	5.24 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	183 °C	361 °F	10°C/min
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	V-2	V-2	

Thermal Properties

Metric
@ Thickness 3.20 mm

English
@ Thickness 0.126 in

Comments

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