

Arkema Group Rilsan® BMF Nylon 11 (Conditioned)

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

Material Notes:

Designation ISO 1874-PA11,M,12-010Rigid 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-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
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	40.0 MPa	5800 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	10 %	10 %	50 mm/min
Tensile Modulus	1.29 GPa	187 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	
	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 µm/m-°C @Temperature 20.0 °C	47.2 µin/in-°F @Temperature 68.0 °F	
Melting Point	183 °C	361 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	50.0 °C Metric	122 °F English	Comments
Vicat Softening Point	160 °C	320 °F	50°C/hr; 50N
Flammability, UL94	HB	HB	
	@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	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Comparative Tracking Index	600 V	600 V	

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