

Arkema Group Rilsan® BUM 30 Nylon 11, 30% Glass Bead Filled (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 11

Material Notes:

Designation ISO 1874-PA11,M,18-020,GB30Rigid grade with glass beads (30%) filler for injection molding. Available colors: black and natural. Additive free.Outstanding isotropic properties. High compressive strength. Low and homogeneous shrinkage: include 0,5% on average for the design of the mold. High dimensional stability (low moisture absorption).Water potable contact approval WRC 950 1509. UL classification: UL94 HB RTI(C) 65/65/65Example applications: Mechanical parts with high dimensional precision.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BUM-30-Nylon-11-30-Glass-Bead-Filled-Dry.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	
Water Absorption	1.3 %	1.3 %	
Melt Flow	7.0 g/10 min	7.0 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	42.0 MPa	6090 psi	50 mm/min
Elongation at Break	37 %	37 %	Nominal Strain; 50 mm/min
Elongation at Yield	4.0 %	4.0 %	50 mm/min
Tensile Modulus	2.10 GPa	305 ksi	1 mm/min
Charpy Impact Unnotched	5.16 J/cm ²	24.6 ft-lb/in ²	
	5.81 J/cm ²	27.7 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	
	0.470 J/cm ²	2.24 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	

Thermal Properties

Metric
@ Thickness 3.10 mm

English
@ Thickness 0.122 in

Comments

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