

Arkema Group Rilsan® AMN P30 LD Nylon 12, Flexible, Injection Grade (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Designation ISO 1874-PA12-P,MLR,12-004Flexible grade for injection molding. Available color: black. Light stabilized. Mold-release agent.Good impact strength. Flexibility and dynamic properties. Easy filling of the mold due to its well adapted 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) 65/65/65.Example applications: Cable ties and clips.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AMN-P30-LD-Nylon-12-Flexible-Injection-Grade-Dry.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Water Absorption	1.2 %	1.2 %	
Melt Flow	61.3 g/10 min @Load 2.16 kg, Temperature 235 °C	61.3 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	23 %	23 %	50 mm/min
Tensile Modulus	0.560 GPa	81.2 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	1.06 J/cm ²	5.04 ft-lb/in ²	
	0.290 J/cm ² @Temperature -30.0 °C	1.38 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	168 °C	334 °F	10°C/min
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB	HB	

Thermal Properties	Metric	English	Comments
	@ Thickness 3.10 mm	@ Thickness 0.122 in	

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.000366	0.000366	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0013	0.0013	
	@Frequency 100 Hz	@Frequency 100 Hz	

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