

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

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-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Melt Flow	61.3 g/10 min	61.3 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	28.0 MPa	4060 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	22 %	22 %	50 mm/min
Tensile Modulus	0.545 GPa	79.0 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	2.17 J/cm ²	10.3 ft-lb/in ²	
	0.370 J/cm ² @Temperature -30.0 °C	1.76 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 µm/m-°C	77.8 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	168 °C	334 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	125 °C	257 °F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (204 psi)</small>	Metric	English	Comments
Vicat Softening Point	133 °C	271 °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+11 ohm-cm	1.00e+11 ohm-cm	
Surface Resistance	5.00e+11 ohm	5.00e+11 ohm	
Dielectric Strength	25.0 kV/mm	635 kV/in	
Comparative Tracking Index	600 V	600 V	

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