

## Arkema Group Rilsan® AMN D Nylon 12, Rigid, Injection Grade (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

### Material Notes:

Designation ISO 1874-PA12,MR,14-010 Rigid grade for injection molding. Available colors: black, natural, orange, red and white.

Possibilities of heat and light stabilizing agents. mold-release agent. Good mechanical properties. Low friction coefficient. Easy filling of the mold due to its well adapted melt viscosity. Low shrinkage: include 1% on average for the design of the mold. Very good dimensional stability (low moisture absorption). High rate of production. UL classification: UL94 V2 (3,05mm) RTI(C) 65/65/65 Example applications:

Stressed mechanical parts in all industrial field. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Rilsan-AMN-D-Nylon-12-Rigid-Injection-Grade-Dry.php](http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AMN-D-Nylon-12-Rigid-Injection-Grade-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in <sup>3</sup>	
Water Absorption	1.6 %	1.6 %	
Melt Flow	69.4 g/10 min	69.4 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	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	8.0 %	8.0 %	50 mm/min
Tensile Modulus	1.45 GPa	210 ksi	1 mm/min

Thermal Properties	Metric	English	Comments
Melting Point	174 °C	345 °F	10°C/min
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
	0.000306	0.000306	

Electrical Properties	Metric	English	Comments
	0.000384	0.000384	
	@Frequency 100 Hz	@Frequency 100 Hz	

## Contact Songhan Plastic Technology Co.,Ltd.

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