

Arkema Group Rilsan® AMN P20 TLD Nylon 12, Flexible, Injection Grade (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Designation ISO 1874-PA12-P,MHLR,14-005Flexible grade for injection molding. Available colors: black and natural. Light and heat 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).Example applications: Flexible parts with high impact strength and vibration resistance.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AMN-P20-TLD-Nylon-12-Flexible-Injection-Grade-Dry.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	
Water Absorption	1.4 %	1.4 %	
Melt Flow	42 g/10 min @Load 2.16 kg, Temperature 235 °C	42 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	31.0 MPa	4500 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	20 %	20 %	50 mm/min
Tensile Modulus	0.620 GPa	89.9 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	0.880 J/cm ²	4.19 ft-lb/in ²	
	0.380 J/cm ² @Temperature -30.0 °C	1.81 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	174 °C	345 °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	0.000364	0.000364	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.000742	0.000742	
	@Frequency 100 Hz	@Frequency 100 Hz	

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