

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

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

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in <sup>3</sup>	
Melt Flow	42 g/10 min	42 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	31.0 MPa	4500 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	19 %	19 %	50 mm/min
Tensile Modulus	0.570 GPa	82.7 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	1.77 J/cm <sup>2</sup>	8.42 ft-lb/in <sup>2</sup>	
	0.410 J/cm <sup>2</sup> @Temperature -30.0 °C	1.95 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 µm/m-°C	66.7 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	174 °C	345 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (204 psi)</small>	Metric	English	Comments
Vicat Softening Point	134 °C	273 °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+12 ohm-cm	1.00e+12 ohm-cm	
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	
Dielectric Strength	26.0 kV/mm	660 kV/in	
Comparative Tracking Index	600 V	600 V	

## Contact Songhan Plastic Technology Co.,Ltd.

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