

## Arkema Group Rilsan® AMV TL Nylon 12, Rigid, Injection Grade (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

### Material Notes:

Designation ISO 1874-PA12,MHLR,16-010Rigid grade for injection molding. Available color: natural. Light and heat stabilized. Mold-release agent.High impact strength. Easy filling of the mold due to its well adapted viscosity. Low shrinkage: include 1% on average for the design of the mold. Very good dimensional stability (low moisture absorption).Example applications: Parts for all technology with high impact strength requirements.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in <sup>3</sup>	
Melt Flow	5.3 g/10 min @Load 2.16 kg, Temperature 235 °C	5.3 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	38.0 MPa	5510 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	12 %	12 %	50 mm/min
Tensile Modulus	1.02 GPa	148 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	0.690 J/cm <sup>2</sup>	3.28 ft-lb/in <sup>2</sup>	
	0.580 J/cm <sup>2</sup> @Temperature -30.0 °C	2.76 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C @Temperature 20.0 °C	55.6 µin/in-°F @Temperature 68.0 °F	
Melting Point	174 °C	345 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	55.0 °C Metric	131 °F English	Comments
Vicat Softening Point	142 °C	288 °F	50°C/hr; 50N
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Comparative Tracking Index	600 V	600 V	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China