

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

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-Dry.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	
Water Absorption	1.6 %	1.6 %	
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	41.0 MPa	5950 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	9.0 %	9.0 %	50 mm/min
Tensile Modulus	1.17 GPa	170 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	
	0.470 J/cm ² @Temperature -30.0 °C	2.24 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	
	V-2	V-2	

Thermal Properties	Metric	English	Comments
	@ Thickness 3.20 mm	@ Thickness 0.126 in	

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