

Arkema Group Rilsan® AMN P40 TLD Nylon 12, Flexible, Injection Grade (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Designation ISO 1874-PA12-P,MHLR,14-004Flexible grade for injection molding. Available colors: black and natural. Light and heat stabilized. Mold-release agent.Good impact strength. Flexibility and dynamic properties even at low temperatures. 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-P40-TLD-Nylon-12-Flexible-Injection-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
Melt Flow	48.8 g/10 min @Load 2.16 kg, Temperature 235 °C	48.8 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.0 MPa	3480 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	26 %	26 %	50 mm/min
Tensile Modulus	0.420 GPa	60.9 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	
	0.360 J/cm ² @Temperature -30.0 °C	1.71 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 µm/m-°C @Temperature 20.0 °C	77.8 µin/in-°F @Temperature 68.0 °F	
Melting Point	168 °C	334 °F	(Dry)
Deflection Temperature at 0.46 MPa	125 °C	257 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	46.0 °C	115 °F	
Vicat Softening Point	132 °C	270 °F	50°C/hr; 50N
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Flammability, UL94	HB	HB	
	@Thickness 3.10 mm	@Thickness 0.122 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	
Surface Resistance	5.00e+11 ohm	5.00e+11 ohm	
Dielectric Strength	24.0 kV/mm	610 kV/in	
Comparative Tracking Index	600 V	600 V	

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