

Arkema Group Rilsan® AMN G8 TLD Nylon 12, Graphite Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Graphite Filled

Material Notes:

Designation ISO 1874-PA12,MHLS,14-010,CD05Rigid grade with graphite filler for injection molding. Available colors: steel gray. Light and heat stabilized. Mold-release agent.Low friction coefficient. No need of lubricant. Good mechanical properties. 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). Higher rate of production.Example applications: Moving mechanical parts.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AMN-G8-TLD-Nylon-12-Graphite-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	
Melt Flow	61.5 g/10 min	61.5 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	39.0 MPa	5660 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	12 %	12 %	50 mm/min
Tensile Modulus	1.36 GPa	197 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	0.440 J/cm ²	2.09 ft-lb/in ²	
	0.420 J/cm ² @Temperature -30.0 °C	2.00 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 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)	143 °C	289 °F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (204 psi)</small>	Metric	English	Comments
Vicat Softening Point	145 °C	293 °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+14 ohm-cm	1.00e+14 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Comparative Tracking Index	600 V	600 V	

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