

## Arkema Group Rilsan® AZM 43 G9 T6LD Nylon 12, 43% Glass Fiber Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 40% Glass Fiber Filled

### Material Notes:

Designation ISO 1874-PA12,MHLS,16-080,(G+C)(F+D)(43+05)Rigid grade with glass fiber (43%) and graphite filler for injection molding. Available color: steel black gray. Reinforced light and heat stabilizing agent. Mold-release agent.High rigidity. Low friction coefficient. High compressive strength. Very low shrinkage: include 0,5% on average for the design of the mold. Low coefficient of linear expansion. High dimensional stability.Example applications: Mechanical parts with friction such as gear and bearing.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Rilsan-AZM-43-G9-T6LD-Nylon-12-43-Glass-Fiber-Filled-Conditioned.php](http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AZM-43-G9-T6LD-Nylon-12-43-Glass-Fiber-Filled-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in <sup>3</sup>	
Melt Flow	2.3 g/10 min	2.3 g/10 min	
	@Load 2.16 kg, Temperature 235 °C	@Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	135 MPa	19600 psi	5 mm/min
Elongation at Break	4.0 %	4.0 %	5 mm/min
Tensile Modulus	12.4 GPa	1800 ksi	1 mm/min
Charpy Impact Unnotched	7.12 J/cm <sup>2</sup>	33.9 ft-lb/in <sup>2</sup>	
	7.25 J/cm <sup>2</sup>	34.5 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.27 J/cm <sup>2</sup>	6.04 ft-lb/in <sup>2</sup>	
	1.06 J/cm <sup>2</sup>	5.04 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C	16.7 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	174 °C	345 °F	(Dry)
Deflection Temperature at 0.46 MPa	173 °C	343 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	
Vicat Softening Point	165 °C	329 °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+11 ohm	1.00e+11 ohm	
Dielectric Strength	20.0 kV/mm	508 kV/in	
Comparative Tracking Index	275 V	275 V	

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