

## Arkema Group Rilsan® AZM 50 NOIR T6LD Nylon 12, 50% Glass Fiber Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 50% Glass Fiber Filled

### Material Notes:

Designation ISO 1874-PA12,MHLR,16-090,GF50Rigid grade with glass fiber (50%) for injection molding. Available color: black. Reinforced light and heat stabilizing agent. Mold-release agent.High rigidity. 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 very high rigidity.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Rilsan-AZM-50-NOIR-T6LD-Nylon-12-50-Glass-Fiber-Filled-Conditioned.php](http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AZM-50-NOIR-T6LD-Nylon-12-50-Glass-Fiber-Filled-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	
Melt Flow	1.1 g/10 min	1.1 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	145 MPa	21000 psi	5 mm/min
Elongation at Break	4.0 %	4.0 %	5 mm/min
Tensile Modulus	14.8 GPa	2150 ksi	1 mm/min
Charpy Impact Unnotched	8.58 J/cm <sup>2</sup>	40.8 ft-lb/in <sup>2</sup>	
	9.29 J/cm <sup>2</sup> @Temperature -30.0 °C	44.2 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	
Charpy Impact, Notched	2.29 J/cm <sup>2</sup>	10.9 ft-lb/in <sup>2</sup>	
	1.72 J/cm <sup>2</sup> @Temperature -30.0 °C	8.19 ft-lb/in <sup>2</sup> @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	
Deflection Temperature at 0.46 MPa (66 psi)	175 °C	347 °F	
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	

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	

## Contact Songhan Plastic Technology Co.,Ltd.

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