

Arkema Group Rilsan® AESN G9 T6L Nylon 12, Graphite Filled (Conditioned)

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

Material Notes:

Designation ISO 1874-PA12,EHLS,22-010,CD10Rigid grade with graphite fillers for extrusion. Available color: steel gray. Reinforced light and heat stabilizing agents.Very low friction coefficient. No need of lubricant. Excellent wear and chemical resistance. Long service life.Example applications: Control cables tubing, parking brake control cable, cable for opening doors.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AESN-G9-T6L-Nylon-12-Graphite-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	
Melt Flow	2.1 g/10 min @Load 2.16 kg, Temperature 235 °C	2.1 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	7.0 %	7.0 %	50 mm/min
Tensile Modulus	2.20 GPa	319 ksi	1 mm/min
Charpy Impact Unnotched	13.3 J/cm ²	63.3 ft-lb/in ²	
	11.1 J/cm ² @Temperature -30.0 °C	52.8 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	0.450 J/cm ²	2.14 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 @Temperature 20.0 °C	44.4 µin/in-°F @Temperature 68.0 °F	
Melting Point	174 °C	345 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	162 °C	324 °F	

Thermal Properties (Tensile at 1.8 MPa (264 psi))	Metric	English	Comments
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 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	

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