

Arkema Group Rilsan® ASR 20 Nylon 12, 20% Carbon Fiber Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Carbon Fiber Filled

Material Notes:

Designation ISO 1874-PA12,M,16-090,CF20Rigid grade with carbon fiber filler (20%) for injection molding. Available color: black. High strength-to-weight ratio. Very low shrinkage: include 0,5% on average for the design of the mold. High dimensional stability (low moisture absorption). Antistatic properties.Example applications: Parts with high mechanical properties and dimensional precision.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-ASR-20-Nylon-12-20-Carbon-Fiber-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	
Melt Flow	4.6 g/10 min @Load 2.16 kg, Temperature 235 °C	4.6 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	128 MPa	18600 psi	5 mm/min
Elongation at Break	4.0 %	4.0 %	5 mm/min
Tensile Modulus	11.4 GPa	1650 ksi	1 mm/min
Charpy Impact Unnotched	6.37 J/cm ²	30.3 ft-lb/in ²	
	5.83 J/cm ² @Temperature -30.0 °C	27.7 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	1.73 J/cm ²	8.23 ft-lb/in ²	
	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C @Temperature 20.0 °C	22.2 µin/in-°F @Temperature 68.0 °F	
Melting Point	174 °C	345 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	175 °C	347 °F	
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	

Thermal Properties Vicat Softening Point	Metric 170 °C	English 338 °F	Comments 50 °C/hr, 50N
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 3.10 mm	HB @Thickness 0.122 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	600 ohm-cm	600 ohm-cm	
Dielectric Strength	1.00 kV/mm	25.4 kV/in	
Comparative Tracking Index	100 V	100 V	

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