

Arkema Group Rilsan® ASR 30 Nylon 12, 30% Carbon Fiber Filled (Dry)

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

Material Notes:

Designation ISO 1874-PA12,M,16-120,CF30Rigid grade with carbon fiber filler (30%) for injection molding. Available color: black.Very high rigidity. 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-30-Nylon-12-30-Carbon-Fiber-Filled-Dry.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 235 °C	3.0 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	161 MPa	23400 psi	5 mm/min
Elongation at Break	3.0 %	3.0 %	5 mm/min
Tensile Modulus	15.0 GPa	2180 ksi	1 mm/min
Charpy Impact Unnotched	6.12 J/cm ²	29.1 ft-lb/in ²	
	5.91 J/cm ² @Temperature -30.0 °C	28.1 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	1.45 J/cm ²	6.90 ft-lb/in ²	
	0.940 J/cm ² @Temperature -30.0 °C	4.47 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	174 °C	345 °F	10°C/min
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 3.10 mm	HB @Thickness 0.122 in	

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