

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

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-Dry.php](http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-ASR-20-Nylon-12-20-Carbon-Fiber-Filled-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	
Melt Flow	4.6 g/10 min	4.6 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	132 MPa	19100 psi	5 mm/min
Elongation at Break	5.0 %	5.0 %	5 mm/min
Tensile Modulus	12.6 GPa	1830 ksi	1 mm/min
Charpy Impact Unnotched	5.90 J/cm <sup>2</sup>	28.1 ft-lb/in <sup>2</sup>	
	5.90 J/cm <sup>2</sup>	28.1 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.70 J/cm <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	
	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

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

## **Contact Songhan Plastic Technology Co.,Ltd.**

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