

Nanocyl NANOCYL™ NC1100 Single-Wall Isolated and Bundled Carbon Nanotubes - Research grade

Category : Carbon

Material Notes:

NANOCYL™ NC1000 series single-wall carbon nanotubes are produced via the catalytic carbon vapor deposition (CCVD) process. Nanotubes which exit the reactor are then purified to greater than 70% carbon to produce the 1100 grade. This grade is then functionalized with COOH to produce the 1101 grade. These products are available in 1 to 10 gram order quantities. A primary interest is in applications requiring high specific surface area (BET >1000 m²/g).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nanocyl-NANOCYL-NC1100-Single-Wall-Isolated-and-Bundled-Carbon-Nanotubes-Research-grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 - 2.00 g/cc	1.30 - 2.00 g/cc	
Specific Surface Area	>= 1000 m ² /g	>= 1000 m ² /g	BET

Mechanical Properties	Metric	English	Comments
Tensile Strength	10000 - 60000 MPa	1.45e+6 - 8.70e+6 psi	
Elongation at Break	10 %	10 %	
Tensile Modulus	1000 GPa	145000 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	>= 3000 W/m-K	>= 20800 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	>= 70 %	>= 70 %	TGA

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.00001 - 0.0001 ohm-cm	0.00001 - 0.0001 ohm-cm	

Descriptive Properties	Value	Comments
Average Diameter	2 nanometers	HRTEM, Raman
Average Length	several microns	TEM
-COOH Functionalization	<5%	XPS

Descriptive Properties	Value	Comments
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(see carbon shells)

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China