

Nanocyl NANOCYL™ NC3100 Thin Multi-Wall Carbon Nanotubes - Research Grade

Category : Carbon

Material Notes:

NANOCYL™ NC3000 series thin multi-wall carbon nanotubes are produced via the catalytic carbon vapor deposition (CCVD) process. Nanotubes which exit the reactor are then purified to greater than 95% carbon to produce the 3100 grade. This grade is then functionalized with COOH to produce the 3101 grade. These products are available in 1 g to 1 kg order quantities. A primary interest is in applications requiring high level of purity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nanocyl-NANOCYL-NC3100-Thin-Multi-Wall-Carbon-Nanotubes-Research-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 - 2.00 g/cc	1.30 - 2.00 g/cc	

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	>= 95 %	>= 95 %	TGA

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

Descriptive Properties	Value	Comments
Amorphous Carbon	Pyrolytically deposited carbon on the Surface of the CNT	HRTEM
Average Diameter	9.5 nanometers	TEM
Average Length	1.5 microns	TEM
-COOH Functionalization	<4%	XPS

Metal Oxide
Descriptive Properties

~5%
Value

TGA
Comments

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