

Nanocyl NANOCYL™ NC7000 Thin Multi-Wall Carbon Nanotubes

Category : Carbon

Material Notes:

NANOCYL™ NC7000 Series, thin multi-wall carbon nanotubes, are produced via the catalytic carbon vapor deposition (CCVD) process. These carbon nanotubes are unique and prized world-wide because their small size and high aspect ratio (>150) lets them form a network of conductivity at a very low concentration. A primary interest is in applications requiring low electrical percolation threshold such as high-performance electrostatic dissipative plastics or coatings. During their production, Nanocyl uses exclusive catalysts that make the Nanocyl™ NC7000 the most electrically conductive carbon nanotubes available today. NC7000 carbon nanotubes have one of the most perfect chemical surfaces enabling high efficiency in the matrix in which they're embedded. NC7000 is available in powder form in quantities starting at 2 kg to multi-tons. Pre-dispersed forms are also available (PLASTICYL™, EPOCYL™, AQUACYL™)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nanocyl-NANOCYL-NC7000-Thin-Multi-Wall-Carbon-Nanotubes.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 - 2.00 g/cc	1.30 - 2.00 g/cc	
Specific Surface Area	250 - 300 m ² /g	250 - 300 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	>= 90 %	>= 90 %	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 NC7000	HRTEM
Average Diameter	9.5 nanometers	TEM

Descriptive Properties	Value	Comments
Metal Oxide	10% by TGA	TGA

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