

NanoAmor 50% Regular Single Walled Carbon Nanotubes

Category : Carbon

Material Notes:

Applications Additives in polymers Catalysts Electron field emitters for cathode ray lighting elements, flat panel display, and gas-discharge tubes in telecom networks Electromagnetic-wave absorption and shielding Energy conversion Lithium-battery anodes Hydrogen storage Nanotube composites (by filling or coating) Nanoprobes for STM, AFM, and EFM tips, nanolithography, nanoelectrodes, drug delivery, sensors Reinforcements in composites Supercapacitor Information provided by NanoAmor Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NanoAmor-50-Regular-Single-Walled-Carbon-Nanotubes.php

Physical Properties	Metric	English	Comments
Particle Size	0.0011 µm	0.0011 µm	Average, from Raman Spectra
	0.00080 - 0.0016 µm	0.00080 - 0.0016 µm	from Raman Spectra
	0.0010 - 0.0020 µm	0.0010 - 0.0020 µm	from HRTEM
Specific Surface Area	>= 400 m ² /g	>= 400 m ² /g	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	10.0 - 1000 GPa	1450 - 145000 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	50.0 - 200 W/m-K	347 - 1390 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0100 - 10000 ohm-cm	0.0100 - 10000 ohm-cm	

Descriptive Properties	Value	Comments
Color	black	
Length (µm)	5-15	
Purity (vol% carbon nanotubes), min	90	
Purity (vol% single-walled nanotubes), min	50	

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