

Under
Development

New functional material

Multi-walled Carbon Nanotubes [TC-2000]



FEATURES

Carbon nanotubes (CNTs) are attracting attention as next-generation functional materials due to their excellent conductivity, strength, and lightness, but their difficult dispersion (in polymer and solvent) has become a major issue. TC-2000 of TODA KOGYO is an innovative product which enables easy dispersion, controlling the CNTs physical property by our unique technologies.

CHARACTERISTICS

1 Excellent dispersibility

By applying TODA KOGYO's CNTs shape control technology, it can achieve uniform dispersion in a short time, enabling high-concentration dispersion and reduction of dispersant usage.

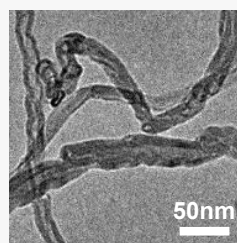
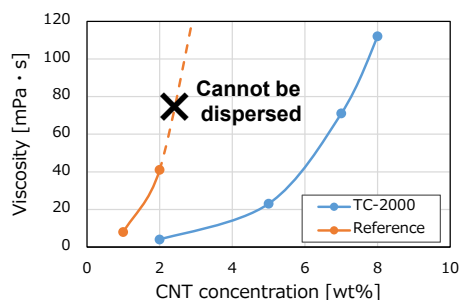
2 Physical property control technology

TODA KOGYO can control the tube diameter and crystallinity of CNTs and provide product that meet customer's needs by applying our catalyst manufacturing technology.

SPECIFICATIONS

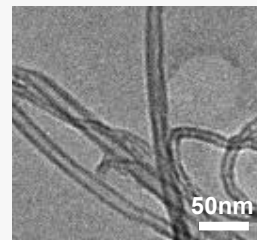
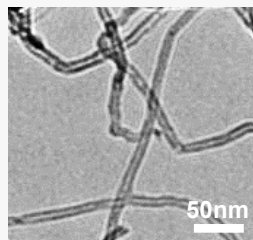
[Representative physical properties]

	TC-2000
Type	Tangled
Avg. tube diameter (nm)	16
Length (μm)	1-5
Purity (%)	>91
Bulk density (g/cm ³)	0.05-0.10
Crystallinity IG/ID	0.9-1.3



Control of tube
diameter
(10-20nm)

Control of
CNTs shape
(crystallinity)



[CNTs control technology]

※Because of developing sample, we may refuse to provide sample depending on the purpose of use.

APPLICATIONS

- Conductive plastic
- Conductive auxiliary material for ESS devices
- Reinforced lightweight plastic
- Electromagnetic wave absorber

TODA
TODA KOGYO CORP.
戸田工業株式会社

Tokyo Office
Shiba Mita Mori Building 6F, 5-13-15 Shiba, Minato-ku, Tokyo 108-0014, Japan
<https://www.todakogyo.co.jp/english/>
TEL. +81-3-5439-6040 webmaster@todakogyo.co.jp



Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner.
The information presented in this document may be changed without notice.

Ver. Aug. 2023