

Product Information

Polypropylene/MWCNTs (PP/MWCNTs) nanocomposite

Cat. No.: X26-04-ZQ540

Size: 100 mg; 250 mg; 500 mg; 1 g; 5 g

Synonym: PP-MWCNT nanocomposite; Polypropylene-MWCNT hybrid; PP-based MWCNT composite

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	This material is a high-performance nanocomposite consisting of a polypropylene (PP) matrix reinforced with multi-walled carbon nanotubes. The MWCNTs are dispersed within the polymer to significantly enhance its mechanical strength, thermal stability, and electrical conductivity. This product is provided as a model material for studying the reinforcement mechanisms and percolation thresholds in thermoplastic composites.
Source	Custom synthesis
Functional Group	Polypropylene
Form	Solid or powder
Purity	≥95%
Impurities	No visible impurities to the naked eye.
Identity	HPLC/MS/NMR
Stability	This product is stable for one year when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	This product can be used for the study of polymer-nanocomposite physics, research into conductive plastics, and the development of high-strength structural materials.
Storage	Store at -20°C.