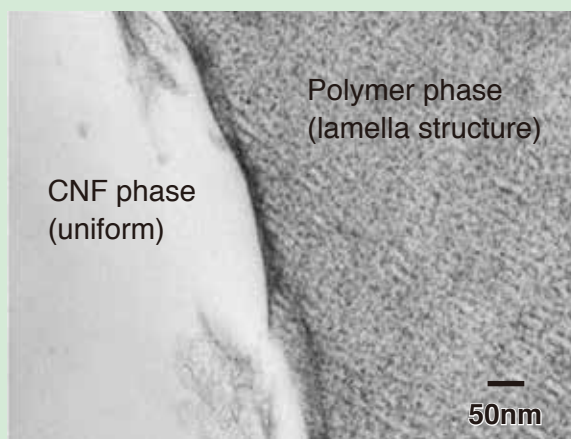


Internal Structure Analysis of Cellulose Nanofiber-based Polymer Materials (2) - TEM

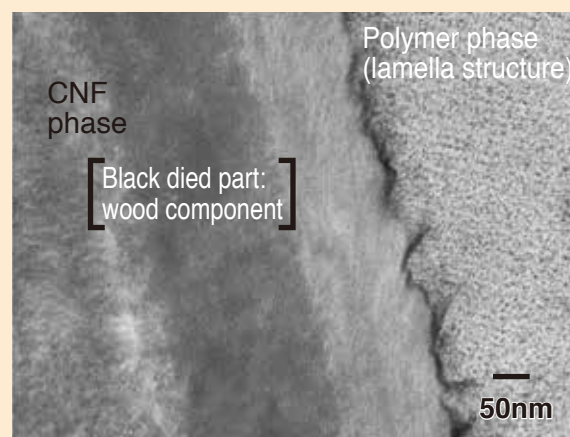
In recent years, polymer composite materials and nanocomposite materials are attracting attention as a material for reducing the weight of materials and a material that puts low stress on the environment in a broad range of areas including the automotive and information equipment fields. We offer to you a dispersibility evaluation and interface structural analysis of polymer composite materials and nanocomposite materials using electron microscopic observation making use of our proprietary pretreatment technology.

1. TEM observation by conventional dyeing method

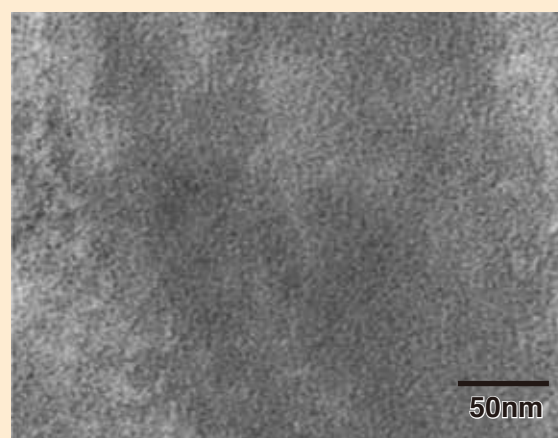


Only the lamella structure of the polymer phase can be observed if the conventional method is used. Observation of the conditions of the inside of the CNF phase is impossible.

2. TEM observation by the new dyeing method No.2



Expanded photo of the CNF phase



Conditions of individual CNF can be observed