

CNF Expanding the Potential of Bioplastics

CNF, which enables both a shift away from petroleum-based plastics and enhanced product performance, has become an essential material for the future of plastics. Here, we present concrete examples in which CNF reinforcement brings new possibilities to bio-based materials, such as bio-based polyethylene (Bio-PE) that significantly reduces CO₂ emissions by utilizing plant-derived carbon, and biodegradable plastics that maintain strength while promoting degradation..



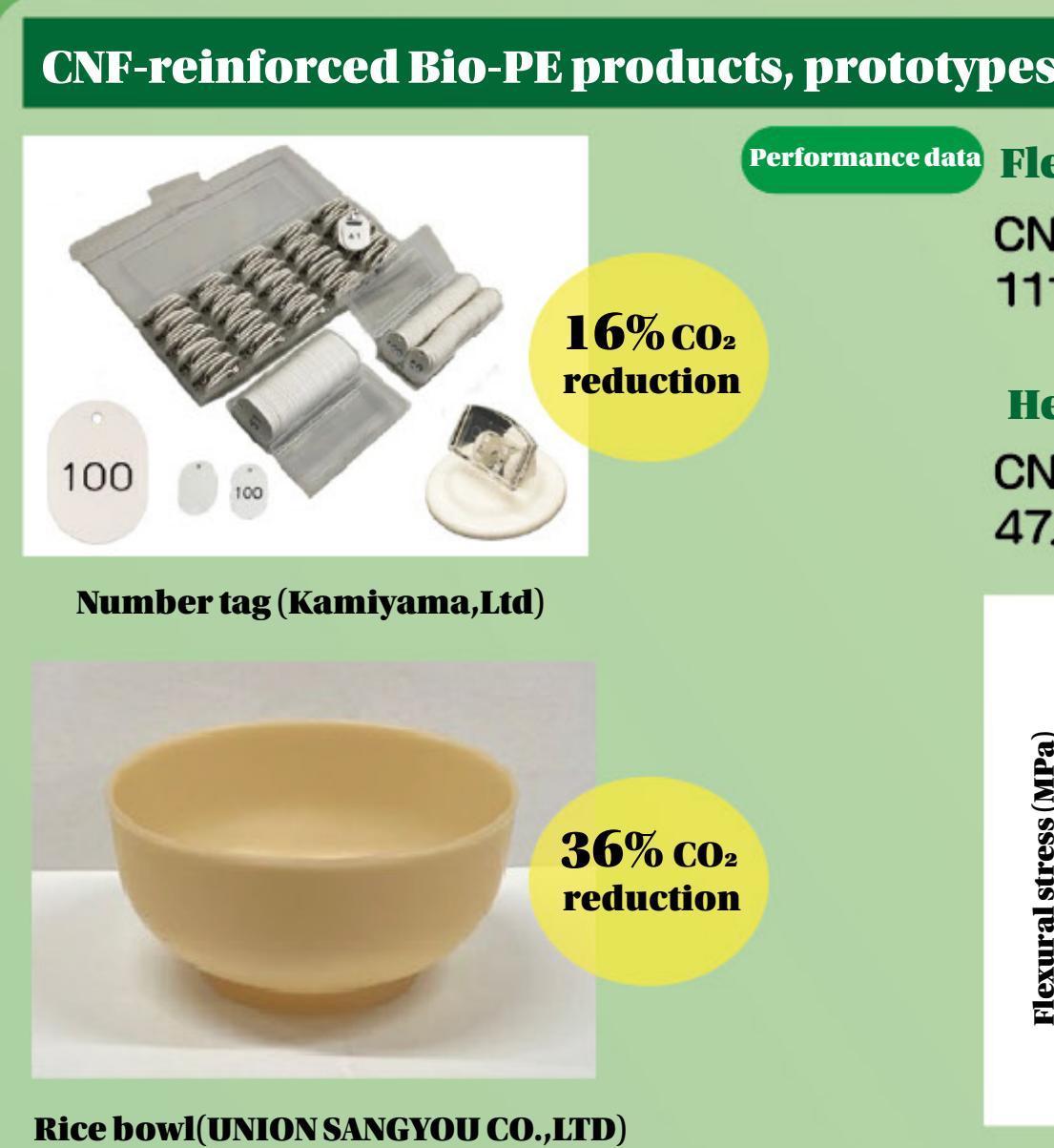
New materials that dramatically improve environmental performance

Bio-PE + **CNF** =

Significant CO₂ reduction through the power of plants

Biomass polyethylene

By combining plant-derived biomass polyethylene (Bio-PE) with CNF, high-performance plastics with low CO₂ emissions are developed. This approach aims to replace plastics derived from fossil resources.



Toward environmentally oriented product branding

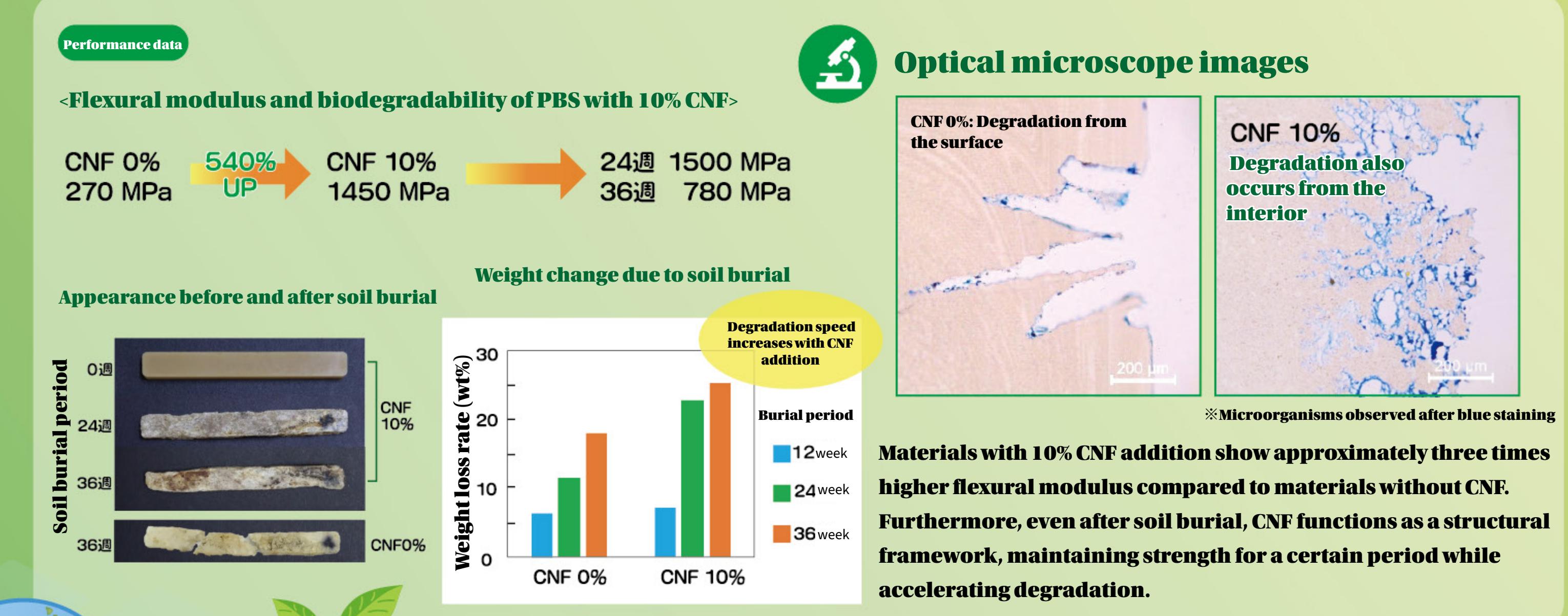


Increased degradation speed while maintaining strength

Biodegradable plastics + CNF

= Promotes degradation while maintaining strength during the degradation process

By compounding CNF with biodegradable plastics, the range of applications for biodegradable plastics expands, enabling new manufacturing that achieves both environmental performance and product performance.



If you are interested in CNF, please feel free to contact us.