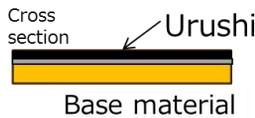




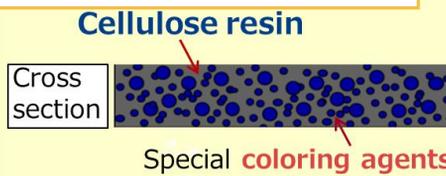
NeCycle®: Cellulose-based highly functional biomaterials

- A new bioplastic featuring the elegant black color (Urushi black) of traditional Japanese lacquerware.
- High scratch resistance and advanced printing technology to reproduce beautiful "Maki-e" (sprinkled pictures).

A top level Japanese lacquerware (by Dr. Yutaro Shimode)



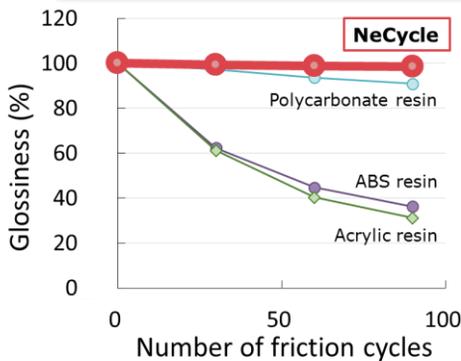
"Urushi black" bioplastic



Target products (examples)



High scratch resistance



"Maki-e" printing technology



Features and Benefits

- High level optical properties of high-grade lacquerware by fine dispersion of special nano-sized coloring agents (without coating process).
- High scratch resistance by adding specific additives which prevent abrasion by rubbing with cloths or paper.
- Advanced printing technology to reproduce fine, thick and beautiful "Maki-e" paintings by optimizing printing method and ink etc.
- Mass production is possible for products of various shapes using the molding process for ordinary plastics.

