

Nano Cellulose and Biodegradable Plastic Composite Color Masterbatch

GS CNF BP Color

Recently, destroying ecology and environmental by plastic pollution is getting severe in the world and especially microplastic problem in the marine environment is becoming a devastating issue. It is predicted that the amount of plastic garbage will be more than that of fish in the world by 2050. Therefore, plastic recycling, reduction of plastic usage itself and biodegradable plastic usage and development, have been intensively attempted and carried out. It is also suggested that color material for these kind of environmentally friendly biodegradable plastic will be necessary. In this regard, we have successfully made nano cellulose and biodegradable plastic composite color masterbatch. Pictures are the products of mixture composite of color pigment, poly lactic acid (PLA), and nano cellulose.

White (Pigment White 6)
Yellow (Pigment Yellow 120)
Red (Pigment Red 57:1)
Green (Pigment Green 36)
Blue (Pigment Blue 15)
Brown (Pigment Brown)
Black (Charcoal)



left: PLA+ color pigment
right : PLA + color pigment + nano cellulose

Tensile strength of these color masterbatch is higher when nano cellulose is mixed. We will also make other nano cellulose composite with other biodegradable plastic and other color as customer request. Please consult us anytime for detail.