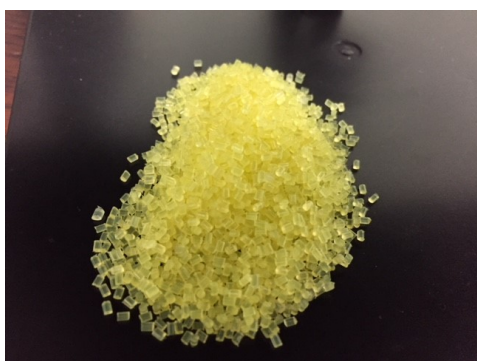


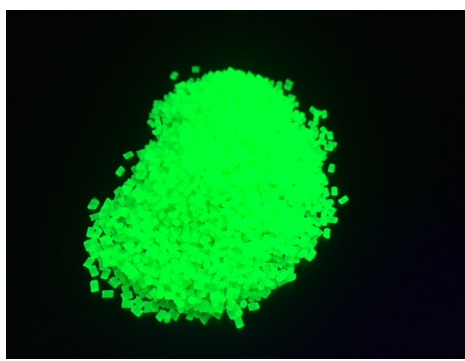
Quantum Dot – Resin Composite Pellet

Quantum Dot – Resin Composite Film, Sheet

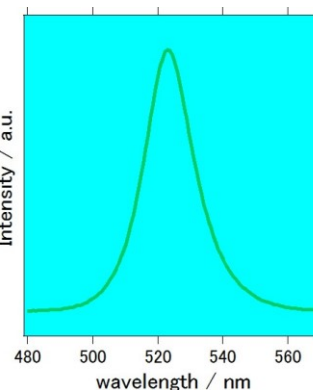
We have made composite material of quantum dot and resin for the first time in the world (our company investigation). It is composed of perovskite quantum dot and polyethylene resin. We are also attempting to make quantum dot resin composite material with other type of quantum dot and resin. We have also made quantum dot film, sheet made from this composite pellet.



under visible light



under UV



Emission spectrum under 360 nm light illumination. Quantum efficiency is approximately 40%.



Quantum dot film, sheet made from this pellet.

Quantum efficiency of this quantum dot film is approximately 10 % and we will keep trying to make quantum efficiency higher for both film, sheet and pellet

If we could achieve higher quantum efficiency, these can be applied for quantum dot display etc...