Abstract

Radiation (UV/EB) Curable Palm Oil (PO) Based Resins can be utilised to produce Green coatings, adhesives, printing inks & overprint varnishes (OPV). The formation of radiation curable palm oil resins or acrylated palm oil resins was usually achieved by acrylation of epoxidised palm oil to produce EPOLA, which could be further converted into palm oil based acrylated polyurethane (POBUA) through isocyanation process. These resins could then be utilised for the production of Green coatings, adhesives, printing inks & overprint varnishes (OPV) by subjecting them under UV/EB irradiations.

Keywords: Green coatings, printing inks, overprint varnishes, radiation, palm oil, resin.