AMPL23 PACKAGING & DECORATION OF PLASTICS

- 1. Introduction of plastic packaging,
- 2. Plastics- performance all wrapped up, ASTM terminology, Flexible packaging material, Indian scenario, Desirable attributes of commonly used flexible materials.
- 3. Multilayer extruded films, troubleshooting, multilayer films- polymers for layers, barrier materials, comparison of 3 layer and 5 layer films co-extruded by blown film process.
- 4. How different co-extrusion films affect Blown film performance, laminates/ Multilayer filmsparameters for acceptance.
- 5. Lamination techniques. Printing on films/ laminates, print evaluation, troubleshooting in print lamination, extrusion coating and lamination.
- 6. Designing a packaging line, important accessories for packaging machine, sealing methods.
- 7. Selection criteria for flexible packing materials.
- 8. Product performance requirements for laminates. Flexible pouches. Aluminum foil based laminates.
- 9. Some special properties and important application of co-extruded films / sheets. Pouches form/fill/ seal. Laminated tubes.
- 10. Barrier packaging, Laminates/ Multilayer films- parameters for acceptance.
- 11. Decoration of plastics by printing, colouring, embossing, Metallizing films and paper etc.
- 12. Recycling: i. Packaging reduction, recycling and disposal guidelines. ii. Recycling methods.

Reference Book:

1. Recycling of Flexible Plastic Packaging, 1st Edition Author: Michael Niaounakis Imprint: William Andrew, Published Date: 4th December 2019