



International Journal of ChemTech Research CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555 Vol.12 No.03, pp 133-135, 2019

## Studies on the Mechanical Properties of LDPE with 1% Benzophenone mixed various formulation of Maleic Dextrose

\*A.U.Santhoskumar, E. Jaya Sathya

Department of Chemical Engineering, Dr. MGR Educational & Research Institute University, Madhuravoyal, Chennai-95, India

**Abstract :** LDPE was blended with 1% Benzophenone and Maleic Dextrose (MLD) at various proportions of 5-30 by wt % as a additive using a twin screw extruder. Tubular blown film was extruded using blown film extruder. LDPE with Maleic dextrose was process able into 50 micron thickness in the temperature range 150 to 210°C. It was observed that higher the Maleic dextrose content, lower the processing temperature range. All the formulations made using Maleic dextrose were easy for processing was decreased as the Maleic dextrose content increased. The film obtained was of light- yellowish brown color with smoothness appearance. The additive has been study about the mechanical properties in this paper. Future, the mechanical properties results will be study for the purpose of photo and biodegradable plastics. **Keywords :** LDPE, Benzophenone, Maleic Dextrose, Mechanical properties.

A.U.Santhoskumar et al / International Journal of ChemTech Research, 2019,12(3): 133-135.

DOI= <u>http://dx.doi.org/10.20902/IJCTR.2019.120320</u>

\*\*\*\*