



Mechanical & Industrial Engineering
UNIVERSITY OF TORONTO

Thesis Projects (MIE498 H/Y) 2018–2019

Title/Topic: Rigid amorphous fraction in PLA and solubility measurements

Description:

Gas could dissolve in amorphous section but not dissolve in crystalline section. Rigid amorphous fraction a state that between amorphous and crystalline section. Various amount of rigid amorphous fraction in PLA is prepared via different solvent (Dichloromethane and chloroform) at various conditions. The prepared samples will be characterized by DSC, XRD or FTIR. The amount of RAF could be obtained. Then gas solubility in RAF will be measured.

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